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<212> DNA
<213> Zea mays

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gggtttgggt tgctctttca gacttatgct tgcctgctag tgagttgtgt aactggtag 360
ttggtttttg gccgtccatt atctctttat atatatagtg tacagtagat ggcagcgatt 420
aatgatata 429

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gctatggtcg ttcacggggc tgtggtgatc cttggcgagg agtcacagga gctagggatg 180

gacggaatca cccctaattc ctcggtgttg gtttgggcac cgccgcgggc cgttgtgccg 240
cgcggtcagt gcatctgcac cacgaattcg tgaggtcacg aggatctgaa gatcacccctg 300
gtaactggaa tctcaagtgc aggagaagaa catgtgggtc aagagggcca cgcatcgagg 360
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<223> Clone ID: LIB3075-043-Q1-K1-C6

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cctctgggag gaacttcgca ttcattcacag cattcggtcc atcgtgtgtc tgaatttgcc 180
tagtttttct ggaggtttga atccttgggg cacacctggc acgaggagag cagaagatag 240
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<211> 433
<212> DNA
<213> Zea mays

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cacatggatg ggggcagaga acatcacggt caagttacct caccttatcc gcgcggtccg 180
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tccttgcgga cgaaagactc ggtcatttga ctccattctg gccgaggtac ggtccttctt 300
cgacgtgcac gaccaagacg gaagccagcc tggaggtgtc caccttgaga tgaccgttca 360

gaacgtgacc gaatgcacgg tcgggtcaag caacgtcacc ttcgacaacc tgagagaccg 420
 ttaccacacg caa 433

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 <213> Zea mays

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 ctttgccaac attcgtcttg tgaataagtt cttgaagggt gaggttggac ccaagacaat 180
 ccatgttcca tctggggaga agcttgcaat ttttgatgct gctatgaaat acaagaatga 240
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 gattcaccgc agcaatcttg ctggcatggg aatcaatcct ctatgc 406

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 <211> 369
 <212> DNA
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 cccatgagcg cacggctgat ggctcaacgg gcggcgctgt ataagcaaca gcaactcctg 180
 acggagaaca tgagcttgca tccatctcgt gtaaagagaa catcgtcaag gagatccagc 240
 gagcagatgc aactgagaac tggaagcgga acgcgaaccc tgaggaacca taccattaaa 300
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 caaagatg 369

<210> 40471
 <211> 313
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-043-Q1-K1-D1

 <400> 40471

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 tgcgtttcca ttgccatgct ccttgccttg tgcacattat ataacctcca aactcactag 180
 gtctatactt actacattct atttgatacc cgagcgtgca tgcaccgct gaccatctat 240
 tggagcccc gttaaattggc gacagaatga tgcatagaat cgtgcaaagt caaacggaca 300
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-043-Q1-K1-D10

 <400> 40472

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 gtgtggcaca tctcaggcgt ggtctataag cctgtcgggtg ctaacaacgt taattgagca 120
 ggcaactgaat gacgctgcct tcgactagta agggcctgga cgaatatctg atcaactcgt 180
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 acatgcgaaa aggagtactg acccaactac ctggcactga tgcctcaagaa cgtctactgt 300
 gacagctaca ttggagccat ggacgtcata ggacaaaggc taattcacgt acgatactgt 360
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 caccg 425

<210> 40473
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-043-Q1-K1-B7

<400> 40473

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tgcacagcca cctcagcctg caaatgttaa cccttcaact ccccatgtgc cccatgcacc 120

ccagcaacca gaggaacta tgccttatgc accagctcag agctatccac ctaatgcaat 180

cgctgcacct tatatgcaac cacctagtgg acctgctcct ccttactatg ggagcaaaa 240

ccctagcatg tatgaacctc ctgcaggccg ggctaaccct gggccaccat catcctacgg 300

ttctggtggg tacgggccac aggggtggagg tagtttctct gaatcttatg gttacactgg 360

atctccttcc caccgtggca atgctggaat gaagcagtct tcaccttttg ctcaatcctc 420

tggaggaagc ggc 433

<210> 40474

<211> 389

<212> DNA

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<400> 40474

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caaagggtta tggttttgtg aagtttggtg atcctaata gcaagctcgt gcaatgactg 120

agatgaatgg catgctatgt tcttctagc ctatgcgtat tgggcctgct gcaaacaaga 180

aagctactgt tggtcaggag aaagtaccaa gtgctcaggg agttcagtct gacaatgatc 240

ctaacaatac aaccattttt gttggtggtc ttgaccccaa tgtcactgaa gatatgttga 300

aacaagtttt cacccttat ggggacgtaa tccatggtaa gattcctggg ggcaaaagat 360

gtggttttgg tcaatatgct aacagatct 389

<210> 40475

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-A5

<400> 40475

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 cggacgtgtg gaaccaaata ctctacacga ggattctttc gaaatcatca tggcattcta 180
 attttagccc cctcccatcc cagtctctgc ctcttctccc ccaatgagaa tcagaagtgg 240
 gggcttggtt tttgtcggag aatgtatgat ttttcattct ttttccttcc tttttgggta 300
 gattgagtaa aatgatagca cgaaaaggaa aatgaatgtt ctgattactg atggtatagc 360
 atgtaagaag attcagctga agtgtaaatt agttgtgagt tagccaattg agaaaacaac 420
 agcgacct 428

<210> 40476
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-A6

<400> 40476

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 cctccgcagg agcatctcaa caccgccttg aggaccccc aactcgccgg ctgcagccat 180
 ggtgaaatat tcgacggagc caaccaaccc caccaagtca accaaggcca tgggccgtga 240
 cctacgtgtt cacttcaaga acaccgtga gacagctttt gcccttagga agttgtcact 300
 caccaaggcc aaaagggtacc ttgaggatgt gattgccac aagcaggcca tcccgttccg 360
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 agga 424

<210> 40477
 <211> 283
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-A8

<400> 40477

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ggtagtgaag ccgacgacgg tgacacgcag ccgctaccgt tccactgcct caacgctgct 180
gccgagcaac cgaagaagag cttcgatgat cgccgccggg cgcaggtgtt tctgcgtgac 240
cacatatcca actcgggtcaa catcgtgtgc tacgtcctcc tgt 283

<210> 40478
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-A9

<400> 40478

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ggaggaccac cgtgtgccta ggcctgggtgc ttctactact ggcggcgctcg actgcgacgg 180
cacatttctc gatcggcgac gtggacgagt acttgaacag gcgcacgcac gagtcccgcc 240
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ccaacgtgga tgcacgcgcg tatg 324

<210> 40479
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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gggcgagacc gacggcgagg acgcgaggct ggatcacgtg accaagcagc agcacctgct 180
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ggcgatggac tgcgtcgta tcgagatctt cgaggtctac agcgagatat gcacgggcat 300
tgcccgggtc ctgctcgccg ttctcggtc ggccccgatg acgccacggg cacggnccgg 360
agagacgttg gcggcagcga ggcggccgaa ggcagtcaa gggatgcggg tactggaaaa 420

tgcccgcgag c

431

<210> 40480
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B10

<400> 40480

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tatagctccc aaaattccat ggggcacaca cacatcagaa tgcgactgat cgtcagacgc 120
atgccaaagg tcagcggatc aggatgagtg cggcataagt gacgcattgg aggcagcaat 180
aacacgtggc agaatatccc atccaaagag aaatcggctt tgtagtccca taattaccat 240
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aacttatagc acctgatcgt agtgacg 327

<210> 40481
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B11

<400> 40481

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gcaccacccc gctcaccttc caggttggca agggatccaa gcctggccac ctgacacctca 180
cccccaatgt tgcaaccata tctgacgtgg agatcaaaga gcacgggggc gatgacttct 240
cctttacgct caaggagggc ccgaccggca cctggacgct cgacaccaag gccccgtca 300
agtaccccct ttgcatccgc tttgctgtca agtccggtgg ctaccgcac gtcgacgacg 360
tcatccccgc cgatttcaag gccggcacca cctataagac cacactcagc atctaata 419

<210> 40482
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B2

<400> 40482

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tgatgagagg aaagctagcg aaattactca gcttacaatg ccaaagcttt gtgttcgtct 180
taacagtcta tattacggta tcagccagtt gagtaagttg gaggacagca ttaatgagag 240
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tgccgaccct aatcagaaga atcaatttga tggcagcaga aaagaaatca atactgctat 360
tgatcgtctc tgtgaattta ctgggacaaa ggttatatcc tgggacctgc agcagccatt 420
tgttg 425

<210> 40483

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B3

<400> 40483

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tagcgggtgta gaggcgaaga gaagaacttg accatgagca gcataggcac aggttacgat 180
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gtcgagaagc tggtaacctc aaagatgatg ctggaaggat caaaccgaag gatccattcg 360
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<210> 40484

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B4

<400> 40484

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gcagaatcat gcttgggata cctgatgggc tctccccagc gtgaattcgt ggcagacgca 180
gtgaacgcgg ctgtcctgtc gacgaacccc accatgaagg accctgagag ctgcctctac 240
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aacaacgacc aaggagatgc attcttactc cacaaagaaa tgcaaacct atgaaaggtc 360
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<210> 40485
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B5

<400> 40485

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gctatagagg ttattggact agagtgcttc tggaaattct aaagaaacat aagggttaaca 360
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tgc 423

<210> 40486
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B6

<400> 40486

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tctctactta cacattagct gctaagaggc atattgactc cactaccatc ttcgacgtcc 180
aaggggctca catggatcat cctcgagcgc aagcaaactt tgagatcgcg ctgaaagcat 240
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tctaaatata ttgctcggca tacatatgtt tgtgatctca tagatttgga ttttgaaccg 360
ttccaagttc ttaattttgg t 381

<210> 40487
<211> 156
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-G2

<400> 40487

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atgaaatagt tagcggaac ggcaaataag cacttttttt tgtagaaaat acacaaagct 120
ttttttttgt ggggtgtggtt aaaaaagatg gataaa 156

<210> 40488
<211> 334
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-042-Q1-K1-G3

<400> 40488

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ccgcggaggc cgcagaggag ccatcggtgg acgcangcgc cgcggctgag gcggaagcgc 180
ccgcggaatc ggcgtagaac gaagagtagc cgcgtgtgta tctcctaatt atacgaactc 240
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ttggtcagtc tgggattgta acacgtgtat gttg 334

<210> 40489
<211> 315
<212> DNA
<213> Zea mays

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<223>      unsure at all n locations
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ggcctcttcg	aggaccgc	ccgggaccg	cgctcacca	aggagctcg	cgcgaggag	180
caccggggcg	tggcgcgga	ggccatccg	aagtcgctg	tgtgtctcaa	gaacagcaag	240
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ggcagacacg	cccac					315

<210>	40490
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<212>	DNA
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<223> Clone ID: LIB3075-042-Q1-K1-G6

<400> 40490

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tatagttaa aaagattgac taata 145
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<210>	40491
<211>	198
<212>	DNA
<213>	Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-G8

<400> 40491

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acctatcatg agcaataatt gcctcttcgc aaggggtgaat cccctctaca aacacacaag   180
tctgtggcga acatgacg                                     198

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<210> 40492

<211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-042-Q1-K1-G9

 <400> 40492

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 ggaggctcct ccaagatcag catcctcaac tcgaccatcg gcaccggcga cgactgcgtc 180
 tcgattgggc ccgggtgcaa cggcgtcttg gtggacagca tcacctgagg gcccgggcag 240
 ggcatcagcg tcggctgcct aggccgctac aaggactaga aggacgtgag cgacatctcg 300
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<210> 40493
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-042-Q1-K1-H1

 <400> 40493

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 gactgcatct ccatcggcca gggcaacgac aacgtggacg tggcccggtg gcagtgcggc 300
 ccaagccacg gcatgagcgt cngcagcttg ggtcgctact ccggcgaggg agacgtcaca 360
 cgggtgcacg tgcgcgacat gaccttcacg ggcacatga acggcggtcg catcaagaca 420
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<210> 40494
 <211> 376
 <212> DNA
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<223> Clone ID: LIB3075-042-Q1-K1-H10

<400> 40494

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ctgaaactgg cccgtcaaga gattgcaaaa ttacaagatg acaacagggc attggatcgt 180
cttaciaaagt ctaaggaagc agctctgctt gaagcggaaa ggacggttca gatggcactg 240
gcaaaagctt ccttggtgga tgatctgcaa acaaaaaacc aagagttgat gaaacagatt 300
gagatatgcc aggaagagaa caaatcttg gatagaatgc accggcaaaa agttgctgaa 360
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<210> 40495

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-H3

<400> 40495

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cgccaaccga gtgctacacg tggctgtcgg gaatgatgcc gtgcgcggac ttctcacc 120
acaacgaggt gccaccgatg ccaccacgg tcgcctgttg tgatggtctc aggtcactcg 180
tcaccaacgc gtccatctgt ctatgccata tcgtcaacgg taacatcaac aagctcctac 240
cggcgcccat gatacccggtg cgcattggtg cgtcccccg cttttgtgtt gtccgctttc 300
cacgagccat acttcgccgg tgtatcagaa ggcatttgcc accgatgaac 350

<210> 40496

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-F5

<400> 40496

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ccgtcgcggt cctggccgcg cggccggcgt ctgcaggcgg gggagccgcg gcggtggcgg 120

acatctgcat gaagactccg tcccccgacc tgtgcaccag gacggcgggg aagcacgcca 180
acaagtacaa ggtggtggac gccgtgacgg tgctagagat gcacgtggac gcgttcaaga 240
agcgcgtgaa agcggggcgg aagc 264

<210> 40497
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-H4

<400> 40497

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tctgttgctt gcggcgaggg agtaaaagga gccgcgacag gatgcactcc tttgggcacc 120
gcgccaacgc ggtggcaacg ttcgcggtca ccatactggc cgcgatttgc ttcgccgcct 180
ccttctccga caacttcaac accccgacac cactgcctg cgtaagatc ttgaatctaa 240
actggttcca gaaggaagcc aacggcaacg acgaggtag catgacgctg aacatttcgg 300
ccgaccttcc gtctcttttc acgtggaaca caaa 334

<210> 40498
<211> 165
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-042-Q1-K1-H5

<400> 40498

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acgtcacgtt ctttgacccc aagttcttcc acatggcgct gctgtcggtg aagaacattc 120
gtatgagcgg tctcaatatc agcgcgccct ccaacagccc caaca 165

<210> 40499
<211> 235
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-H7

<400> 40499

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aactgctgct ggagttggca tgggtgctgc tggcgctgat ggcggtggcag ctttggggaac 120

aactggccca gctgatgcag ctggcttaac tgcagctgca attggggcctt ctgttgctgg 180

tggattaact gcataaaagg gtgtggcgca agatgggcta actgctgcag atcat 235

<210> 40500

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-A10

<400> 40500

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acatgtacca tgggtggaaca aacttcggaa ggacatctgc tgcctttgtg atgccaaaat 120

actacgacga ggcacctctc gatgaattcg gcctgtacaa ggagcccaag tggggccatc 180

tgagggacct gcaccaggcg ctgaagctgt gcaagaaggc cctgctgtgg gggacgccgt 240

cgacggacaa gctgggcaag cagttggagg cgaggtgtt cgagatgccg gagcagaagg 300

tgtgctggc gttcctcttc aaccacatca ccaaggacga cgcgacgatg acgttccggt 360

gccggtccta ctctgtgccg cgccacttca tca 393

<210> 40501

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D7

<400> 40501

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tacaacataa atgggggttc atatgagctg aatgtctcgg gttctcgggg acctaggcgg 120

atgaaatgag ttatgcactc catacctacc tcacgccttg aggctgtggg cactgttacc 180

agccagctgg acagaatcct tgctagatct actgaagaga cattttgcag catttgcttc 240

tccaaagcat ctgttggtga ccgcgctatg tgtttgacca gctcaagatt c 291

<210> 40502
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D8

<400> 40502

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 cctccttggtc ctcttctgca tcgtgcatgg tgagaaggaa gagtcaaagg gcatcgatgc 120
 gaaagcgccc gggcctgggtg ggtccttcga catcaccaag ttggggcgct cgggcaatgg 180
 caagacagac agcacgaatg ctgtgcatga ggcattggca tcggcggtgcg ggggactgg 240
 gaagcagaca atcctcatat ccaagggcga cttccttggt ggacaactca acttcacagg 300
 cccttgcaag ggcgacgtga ccatccacgt ggatggcaat ctgctggcga ccacggacct 360
 aagccagtac aaggaccatg gtaattggat cgagattcta cgcgtggata acctggtca 419

<210> 40503
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D9

<400> 40503

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 ggattcagaa gcgaggatgg cgacgaccgc gactaggcgg tggaggaggc ggcacgaagg 120
 cggcgacgat gaccagacg acctcgtccc catggacacc caagagcaag aagagctggt 180
 ccggtctctg gaggctaagc aggcgcagca aggcgcctg tggagcgcg tcttcgcggg 240
 gttcctccta gggtacgcgg tcttccttgt ctactacagt ttccatcatg cttggtctcc 300
 ctgggagctg cgttaccatg cttacttcat ggaagatttg cctgcaccaa tggtcataat 360
 tgcaggatta ctacaaaatt catgcccac aaagaagtgg atgtggtatt cttgctatgt 420
 t 421

<210> 40504
 <211> 298
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3075-042-Q1-K1-E1
 <400> 40504
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 ggtgagccgg cacacgatcc aggtgtacc tacgtcgtgg acggcggtga tgatgacgtt 180
 cgacaacgcy ggcattgtga gcatccggtc caacatctgg gagaggcagt acctcggcga 240
 gcagctgtac gtgagcgtca tctcgccgga gcggtcgtc agggacgagt acaacatg 298

<210> 40505
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-042-Q1-K1-E10
 <400> 40505
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 atatcgccgc ggcacacacg catcttggtc actcctatcc atggttcgaa ttaccgaccg 180
 aaaagtctgg ttctcggcc aatttctcgt tcccggtcag ctaggggaag catttctcgg 240
 cccggtatca cattgtaaaa atatgaaagt caattttttt tgttcaaaac gaaatttcgg 300
 aacagtgaag cgaaaaagtg aagcctgttc cttactatgt tcaaggattt ttgctctctc 360
 catccacaa ttttcgagca gtatgtcagc ttagaattag gattatttgg tgctgcatca 420
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<210> 40506
 <211> 402
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-042-Q1-K1-E11
 <400> 40506
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atgttgctgg gcagatcttt gatttagctg ataaactaga gcaagctgaa ggccagctgg 120
cacacagtcg atttggtggg atgattatgc cttcacaacg aaagaaagag caagaagagt 180
ctccactggc taaggtaaca cgagatagct ccaaaatcac agctgagcag gttcacggcc 240
tcatgtcaca gggtcataaaa gacatccttt tcaactctgt tcacccgtca agcaagggca 300
ggccaaagtg cttcaccaga ttcatacaagg cctgagccta tgggtgaagc ctgagttcca 360
gcgaaagggg acattggata tttgcgttat gctatctgat tc 402

<210> 40507
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-E12

<400> 40507

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cgggcaatcc agtcacggtg tacatcactg acatgaacta cgagcctatc gctccctacc 120
acttcgactt gagcggcaag gccttcggct ccctggcaaa gcccgggctc aacgacaagc 180
ttcgccactg cggcatcatg gacgtcgagt tcagaagggt gcggtgcaag taccgccg 240
ggcagaagat tgtgttcac atcgagaagg gctgcaacct caactacctg gccgtgcttg 300
tgaagtttgt ggcggacgac ggtgacatcg tgctgatgga aatccaggac aagttgtcgg 360
ctgagtggaa gcccatgaag ctctcttggg gcgccatctg gaggatggac act 413

<210> 40508
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-E2

<400> 40508

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ggtgcccgcg ctgcacgtgg ggctcatccc attgaagaca ttgctaataa gggattgaag 120
attgatggtg ggagcgtca gaagattgct ggacgtggac atgaaggac tacatgtcta 180
gggccataga aagtatgcta ttattatgca cttttgcttg gcctatttgg ttctgta 237

<210> 40509
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-E3

<400> 40509

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gaccccgact acgacccggc ccttgacatg gaacgcacgc agtcctcgac cgtaaggcta 120
ttggacgaac agaaaagaat ggttggtgta gtatctgtca gcgaggcagt tcagattgca 180
gacgataatg atcttatact ggcaatatta tcaatggatg gggacccccc agtacttcga 240
ctcttttgagg agagagatta caaaaaacat aggtgtgaac aacagaagaa gaaaaagatt 300
cagcaggaaa agatctgtcg cgaaacgcac gggctttgga agagctgaat aaggggatac 360
caacatttga caattcatga tta 383

<210> 40510
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-E4

<400> 40510

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aggaggaagg gactcatgcg gtagggatga ccaggatgat ggggagaggg agatccagga 120
gctctgggat accattgctg gtggtgagtc agaggatgac caagaagggtg ttagaaccgt 180
agatgatgat aatttcattg atgacactgg agttgatcca gctgatcggt atggcagcga 240
taatgttcta cattcacctg gacgttatgc acatgc 276

<210> 40511
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-E5

<400> 40511

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gcgggtagcc ggggcggttag ggccaccttg ccgatacaag gtgttgggta ctatgagcct 120
gcacacaatc cagtgtaccc tag 143

<210> 40512
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-E7

<400> 40512

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tctcttgcac tcggggtcgg ttcttgcgaa acctaacttg accgcaggca tggagcactg 180
ctatgtggga cagccgatct ccaaggccga tgctatgcc taaa 224

<210> 40513
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-E8

<400> 40513

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ttctctcttt gatggcattg aggagggtgg aatccaagca acatgctatt cttgtcatga 180
gatagatgag caagaaaatg atggagctat tgatggactg caggatcgtg tcagcattct 240
caagcgggtg tcaggcgata tccatgaaga ggtggagact cataacagaa tgctggaccg 300
aatggtgaac gatatggata ctttaagggg ttttttgtct gggaccgggg acaaatttaa 360
gattggtttt gggaccaaata caagccggag ggtgggaacc cttcgtgaat tatttattga 420
cctttttttt 429

<210> 40514
<211> 160
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D6

<400> 40514

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tgctcgctcg ggtaaataca gggatgttca aagtgtttaa atagcacttg gttacatgaa 120

acagaagggt atggtacctg gtgttattct ttacaatgaa 160

<210> 40515

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-F11

<400> 40515

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cgaagcttct gccctccccg gcgtcgggct ctggctcgctg tcaatcgtga agattgctga 120

tgtcttttgt gttctatatt ata 143

<210> 40516

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-F2

<400> 40516

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gaggtgggcg atcgacgacg atgctcccga ggtgggtggg aaagcggcgg cggcactccc 120

cttagaccga gtgatggcgt cgctcccag gcagacgggc aagtgggtgag aacgtccccg 180

aagcgggcga gcggtggcag cgcaccctaa gcgtggaggc gacggcggtt gcgtgaggtg 240

aggtaagctt cggcagcaga tgtggcggcc acaagagacg cgggtggctc caggagtcgc 300

gcgaggcatg gtcaattttg ccatggcggc ctcaagaggc atg 343

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-B7

<400> 40517

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gagccgcagc atggcatcat cggccgcgct cttggtgcta gccctcgcgc tagtggcggc 120

caccgccccca caggtagcgg aggcaaagaa gaagagagcg gcggagagcg gcgaggcggc 180

ggaggcgaag aagatccagg acgacttctg ctcgacgctg tgcgagggca agaaggggac 240

ggacctggtc gtgtgcaagg agtcctgcgc gctctcccag cagtccaacc tgggtgctgta 300

cggcaagatc caatgcgagg gcaagtgcac cga 333

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<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-B8

<400> 40518

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agaagccatt gaggacatac aacaaggaaa acttgtgatt gttgttgatg atgaatcaag 120

ggaaaatgaa ggagatctga taatggctgc cttcttgggt accccagagg ctatggcttt 180

tatagtaagg catgggacag gaattgtttg tgtcagcatg aaagaagatg atctggaaag 240

actgagcctt cttttgatgg ttaccacaaa agaaaatgag gagaagctat gcactgcttt 300

cactgttaca gtggatg 317

<210> 40519

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-B9

<400> 40519

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tgggtggtctt gctaaacgag ggaaagaagg aaagaacagg agggcaaagg attccatgtt 120

tgggcacggt ggtcgtaaag ggctgaagaa gcaaaacacc gctgagacca ctaatgattt 180
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 tgatggatat agtaagaatt tgggtgagtc tcaaaaccag atgaggaaga agttttgaac 300
 ctttgctgtt attactatcc cgggtgtggc attattttgt tatgggtgtgt gccagaatga 360
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<210> 40520
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-C11

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 ctagcagctg tgatcttctg cct 203

<210> 40521
 <211> 158
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-C2

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 aaatggaatc gggcaaaaaa ggtggatgga ttaggggt 158

<210> 40522
 <211> 94
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-C3

<400> 40522
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 aggacgaaga cgacgactag ggggcgcgcc gcga 94

<210> 40523
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-C4

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 gttcaatgca ccgccagggg caagtaccag gtcttatacc ttaaaatgaa tgatgactac 180
 cacatggacc ttgctgagtt caaaactagt gcaaagagga aagatacttt ttacagcacc 240
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 catcaagctt ggccttgggt tcaactta 328

<210> 40524
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-C5

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 gtgcaggcgc accatgggct tcggtcacat gacacaccgg cgggctggcc ggcaagttct 180
 acgtggtgat tgacccacgc gacgacccg ccgacctcgt ccccccagg aagggcacgc 240
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<210> 40525
 <211> 216
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-C7

<400> 40525

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gggagccata gacggagagt tgatgccacc ggcgaatgga tgggtggatg ctcacgacct 120
ccgcgtgcaa caacaggggt aagaactcgt ccccttctctc tccggcggcg aggttacgat 180
cttcctctgc cgaccttgaa ctttaaaaat gagaac 216

<210> 40526

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-C8

<400> 40526

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ccggcggcgc cgagtccaag gtcttctacc tcaagatgaa tgggtgactac cacacgtacc 180
ttgctgagtt caagtctggt gcaaagagga aggatgctgc ggaaagcacc atgaatgcct 240
acaaagctgg taaggacatt gctcttgcaa atctgcttcc aaccaacca ataaggctgg 300
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<210> 40527

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D10

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gcgtttcgtc cgcgccgtg actccgagga gttcattttg ccgcgctgtc tccctgaatc 180
ctacacgtcc ttctcgcgtt tggctcgact ggcgcgttga ttcttcttc ttctgttggt 240
gatgtgcaga tctcccatc tctttttaca agaact 276

<210> 40528
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D11

<400> 40528

ggcgagcagg atggaggacc tggaggccat tgtgatgctg gctgcgctat tcgttggttg 60
 gttgtgcacc accccctca cgttcaggt cggcaaggga tccaagctg gccacctgat 120
 cctcaccccc aatggttgcca ccataccga cgtggagatc aaagagcacg gtggcgatga 180
 cttctccttt acgctcaagg agggcccgac tggcacctgg acgctcgaca ccaaggcccc 240
 gctcaagtac cccctttgca tccgctttgc tgtcaagtc ggcggtacc gcatcgccga 300
 cgacgtcatc cctgccgatt tcaaggccga caccacctat tagaccacac tcagcatcta 360
 atcaatctct ggtgatgaat tagatttcaa aagagctcat ctacgcaca tg 412

<210> 40529
 <211> 199
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-B4

<400> 40529

ggcagtgctg ccaaggcacc tgagtctgac aagagaactg ctgccccgc tgaagcacc 60
 gaagccgcat gcacccccgt cggcgccgct ggcccatcga cgttgtctat gaagtctggt 120
 ccagataccg ggccagtcac cgacttttca ccccttttt ccaccgtcga agagctgagg 180
 cctttccctc catcattca 199

<210> 40530
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D12

<400> 40530

ctttatctcc tctcgatcga tcgcttcctc catcgaggcg gtaaagcgcc gccagatcg 60

ccggaagcaa gcggcgacct caccagctcc gagcagcagc agggaggctc gtggaaccat 120
tagtcgtttt ctggcagcgg catggagggg ctgagctgga gaacggtgtg ttgtttatcg 180
gtgctctgtg ccgtgctggt cttgcgcccc gccgagggca tccgcttcgt gatcgatagg 240
gaagagtgtc tctcgcataa cgtggaatac gagggggata ctgtccatgt atccttcgtc 300
gtcatcaagg ctgacacccc gtggcattac agcgaggagg gcgtcgatct ttgggttaag 360
gatcctaata ggcgctaagt ccgtgattcc cgagataaga ctagtgaca 409

<210> 40531
<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D4

<400> 40531
aaaaaacata aaaaaaaca tacgaaaaca caaaaagatg gcttgcacaa acaaagcaaa 60
tgagaacctt ggggctcctg gtggtcttct gcacgtgca tcgcgagAAC gaagagtcaa 120
acggcatcga tgcgaaagcg tacgggcctg ctgggtactt ctacatcacc tcgttgggca 180
ccttcggcac tggcaagaca cacagtacga acgtgaaca tgaggtatg 229

<210> 40532
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-D5

<400> 40532
cgcactgcag agagaggaag tattgaaaca gacggttcca gatgagaaaa acaaacatgt 60
agaagcaatt ggagcagttg agatggcaaa aaatgcattt acacacgaga cctattccaa 120
gcaccaggct gagaatgcta aggctgtgga tgccctttta tcaacaggca aaagtgtcag 180
gcggtactcg aaacatgaaa tagagctcgc cactgattac ttttctgatg caaagaagat 240
tggtgagggt ggctatggga atgtatacag gtgtaccctt gaccacaccg aagtagctgg 300
taaagttggt gaacaaagat tcga 324

<210> 40533

<211> 174
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-041-Q1-K1-H2

 <400> 40533

 cccacgcgtt cgcgaaatgga tccaagcccc cactctttgc tggcatcata gcacttgtga 60
 tgagcatcgc aacgatgggc cgtctgaccc gcgagcatga tgccctgggaa ggttcttggg 120
 gctgccatag gtggagctac cctttcagat agttaatttt atgttcaaga gctc 174

<210> 40534
 <211> 232
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-041-Q1-K1-H4

 <400> 40534

 cactaaccag gtcattgggc caacttgaac tgtggaagga gaagagctct ggcacgtatg 60
 agaagaaggt gtatgtgctc cccaagcacc ttgatgagaa ggttgctgct cttcacttgg 120
 gcaagcttgg tgccaagctg accaagctca ccaagtctca tgccgactac atcagcgtgc 180
 cgatcgaggg ttccctacaag cctgtccact accggtacta ggcacacggc tt 232

<210> 40535
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-041-Q1-K1-H5

 <400> 40535

 gacagacagc acgaaagctg tgcaggaggc atgggcatcg gcgtgcggcg gcactgggaa 60
 gcagacaatc ctcataccca agggtgactt ccttgctgga caactcaact tcacaggccc 120
 ttgcaagggc gacgtgacca tccaggtgga tggcaatctg ctggcgacca cggacctaag 180
 ccagtacaag gaccatggta attggatcga gattctacgt gtggataacc tggatcatcac 240
 cggcaaggga aaccttgacg ggcaggggccc agccgtgtgg agcaagaact cctgcaccaa 300
 gaagtacgac tgcaagatcc ttcccaactc gctggtgatg gac 343

<210> 40536
 <211> 382
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-041-Q1-K1-H6

<400> 40536

gngacggatg acatcctaaa accctaacca cgcgacgctc gccgactcgc cgtcacagcc 60
 gcacctcaac cggagtcgaa ggcgccattga tgaactccga gcctgccgctc gccgcagcta 120
 gcgatgcaca agcttcttcc acgccgccgc tncctncttg acgcagncgg cgnccgctggc 180
 cccctgctgc tcttctttcc acgcatgccc acgctgcgcc tgtctggtag gccgttcgta 240
 gccatgcgtn ctggcgga aa ccctagccgt atccgtgcgc cgccgtggct gcactgtgac 300
 gctgggtgga ggccgngact ctgttccgcc gaggctgcga ggccgctggg cgatacagag 360
 gagatggaga aggatggcgg gg 382

<210> 40537
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-H8

<400> 40537

cggcgaggg cgcgcggac ggcgcgagg ccacgggggt cgtgctccag aagtgcgaat 60
 tccaggccga ggccgcgctc cgggacgcca agcgcgggc catccgcaac tacctgggcc 120
 ggccctggcg cgagtgtcgc cgcaccgtcg tcatggagtc ggagctcccg gacttcacgc 180
 acaaggcccg gtacctgccc tggaacggcg acttcgggct caagacgctg tggtagcccg 240
 agttcgcaa caccggggcc ggccgagca cggcggggcg cgtcagctgg ccgggcttca 300
 agaagtgat cagcaaggcg gacgcgacca agttcacggt cgagaacttt ctgcacgctc 360
 agccctggat cgatcccaca ggcacgccgg gtcaagtacg acctgttcac atgagcggcc 420
 ggggatcgga ccggaggatg catc 444

<210> 40538
 <211> 394

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-041-Q1-K1-H9

 <400> 40538

 aggccctcaa gggggtcacc atcatggagg gcgacgccga ggacctcccg ttccccaccg 60
 actccttcga ccgatacatc tccgccggca gcatcgagta ctggccagac ccacagcggg 120
 ggatcaagga agcctacagg gtcctgagat ttggtgggct agcttgcggtg atcggcccg 180
 tctacccgac cttctgggtg tcccgtttct tcgccgacat gtggatgctc tttcccaagg 240
 aggaagagta catcgagtgg ttcaagaagg ctgggttttag ggatgtcaag ctgaagagga 300
 ttggaccgaa gtggtaccgc ggtgtccgaa ggcattggcct tatcatgggc tgctccgtca 360
 caggcggttaa gagagagcgc ggggactttc cctt 394

<210> 40539
 <211> 323
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-042-Q1-K1-A1

 <400> 40539

 agcttgccaa atatgtttca tgacaatgta aatgtggagt ctgctcttgg tccagcactt 60
 aaatcagctt tcatggttat gagtcaaatt ggggggaagt tgcttgtctt ccagagtact 120
 ttgccatctc ttggtattgg tcgtttgagg ctacgaggag acgatgtccg tgcatatgga 180
 acggataagg agcatactct gagggtagca gaagattcct tctacaaaca gatggctgct 240
 gaattcacia aatatcagat tgcagtggac atattttctt tcaacgataa agtactcaaa 300
 tataagcatc tttaacgac ttt 323

<210> 40540
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-042-Q1-K1-A12

 <400> 40540

 atcgccgta gagcgagcag tatcccaagt ccaccagtc tctaatacaca ttactctcga 60

acgacagggt ccttgcacca ctatatccag gaccgacgaa gtgatccagc cgacagtcac 120
ggagacgaag aagggtgctat gggcactgct agtaccagcc gtctcgggtca cagtcgcgct 180
gagctggctc gcctacgagg caccatccga ggcgctcacc gtctcgggcc gcggtgcggc 240
tggctcctag cgatagcgga gcgggctgca acgtcgtgct atccaccaga gcacttacaa 300
cttcatcact aactgctacg tggatatgac gaaggctctc ta 342

<210> 40541
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A2

<400> 40541

gagaagagct ctggcaagta tgagaagaag gtgtatgtgc tccccaagca ccttgatgag 60
aagggtgctg ctctccactt gggcaagctt ggtgccaaagc tgaccaagct caccaagtct 120
caggccgact acatcagcgt gccgatcgag ggteccctaca agcctgcccc ctaccgggtac 180
taggcacacg gcttgcaact cactcgggcc gttgtgtgct atgaagttcg ctacactggc 240
ctgtcagata tcttttgcac gcataatgac tatcatatac gcaggcgcgt agcacgtttt 300
cttatgggta tcgcttgaac tgagggggg 329

<210> 40542
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A3

<400> 40542

aaggggtgcg gaccaactac ctggaactgt tggacaatta cgtaaaccgc aacggggcct 60
ttatggccgt gaccataagg gaaaagggtt ccacacaatc caacccact atgacttctt 120
ggggcgccat ttggaggaag gacagcaaca aaccgtttta gggacccttc accgtccgcc 180
tactaccga gggaggcacc aatgcccggc tacgacgatg tcattccctgc caactggaaa 240
gccaacaccg tctacaccga caaataaata actttattgc tgacaatact ttaagccgac 300
ctatgctaac tatactagat tgggttggat cccaaaccat gcattacaca tgcattgca 358

<210> 40543
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A4

<400> 40543

cggacgcgtg ggggcgtgca caaacaatgc gatgagagcc ttgttctctc tggtcctctg 60
ctgcatcgtg catggtgaga aggaagagtc aaagggcatc gatgcgaaag cgtccggggc 120
tgggtgggtcc ttcgacatca ccaagttggg cgctccggc aatggcaaga cagacagcac 180
gaatgctgtg caggaggcat gggcatcggc atgcgggcggc actgggaagc agacaatcct 240
catacccaag ggtgacttcc ttgtcggaca actcaacttc acaggccctt gcaagggcga 300
cgtgacca 308

<210> 40544
<211> 186
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A6

<400> 40544

ttcacgcgtc caccacgcg ttcgggcact cgtaaaaaa catgcttgca taactcctcc 60
agtacgatcc tatggagatt atcacaggtg gagttgtcat acacgaagcc tatctatcta 120
ataatcccct gatccaaaag tgacctttat gacatgcata tggacgggca tatatattta 180
tataaa 186

<210> 40545
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A7

<400> 40545

gacagaaagt agcataaacg ctaccatgct tgaggaaggg cttgcccggc tcgaaagaag 60
caagagatgg gacactaggg agaggaagac ggctctccag aacctggaac agttccagga 120

caaggcaaaag aaggaaaggc tgcggatttg gcagtacgga gatggtgaat cggacgagga 180
cgagcaggcc ccgcctgcaa ggaagcctgg aggtcgtcgg tagagactgg gcagcgtaag 240
gctgcagtct ggcattgctat gaaagttttg gacaaccaca aatggtggac tctgccggga 300
gttatagatg aagacttact gaggggtacc ggatttatat tcggctagaa gaagggaact 360
taacgaggcg aaatcacttt tgatat 386

<210> 40546
<211> 199
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A8

<400> 40546

cccacgcgtc cgcattgatg catgcataac acctcgagta ggagttgaag tacatcatca 60
ttgatggtat atatatagag gaagcatgtc tatctaataa gtccctcatc caaaattgat 120
ctttatgtca tgtatatgta cgtgcatata tatatatata aaaatacgtc tccttttatt 180
aaaacaaaaa acccaagaa 199

<210> 40547
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-A9

<400> 40547

cagtcagaaa atagtgggat cgagttgttt cactgcacga gcacatcctc cggcgaccac 60
cggcctccct ctccgtcctc tagcgaccga ccaacgcgcc gagcgaagat gtcgtggcag 120
acgtacgtgg acgagcacct gatgtgcgag atcgagggcc accacctcac gtcggcggcc 180
atcgtcggcc acgacggcgc cacctgggct cagagcaccg cgttccccga gttcaagccc 240
gaggagatgg ctgccatcat gaaggatttc gacgagccgg tgcacctcgc cccgaccggc 300
ctgatcctgg gaggcaccaa gtacatggtc atccaaggcg aacctggagc tgtcatccgt 360
ggcaagaagg gatccggggg catcactgtg aagaaaacag ggcagtcact catcattg 418

<210> 40548
 <211> 134
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-041-Q1-K1-H12

 <400> 40548

 gcgtcgagggc ttgtaacaac tgggatgata tggagaagat ctggcaccac accttctata 60
 acgaactccg tgttgcgcct gaagagcacc ctgtgctgct gaccaagcc cactcaacc 120
 caaaggctta caag 134

<210> 40549
 <211> 321
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-042-Q1-K1-B10

 <400> 40549

 cggacgcgtg ggtgcccatt gccctctcga gtctcgctcc gtggcctggt ggccctgatt 60
 gcaccggccc tccctcccgc tcgcccagac ggggcagcgg cgccggcccc ggcacccgc 120
 gcgcggggtc ggacggggag aggggcgggg gtcgtggcgc tggcggcggc gctgccgtcg 180
 gacgcgcagt ggctggagcg gctgccggag aagaagaagc ctctggacac gcacagcctg 240
 ccgtgcatcg aggcgtggct gcgcagcctc gggttcacgc agtccctcga ggaccccgtc 300
 gtctgggtcg tcgagaagcc g 321

<210> 40550
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-042-Q1-K1-B2

 <400> 40550

 cggacgcgtg ggggcgctgt cgtggacgtg ccggttcgct gctgaaccgg ggttgggttg 60
 gaccctgttc gttttcgtct gatctagcac tagaagtagc ggtgatgggg tgtgtgtggt 120
 tgtgtacatg ttcttgagg ccgttgtgat ctgcgtgtgc tattatcact tattcttttg 180
 gtccatatac ggaccacat actggattgt tcgtatgtat aaccacggtg gagaggcgcc 240

tgttatatta ataaacac

258

<210> 40551
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-B3

<400> 40551

gaaaatagtg ggatcgagtt gtttcaactgc acgagcacat cctccggcga ccaccggcct 60
gcctctccgt cctctagcga ccgaccaacg cgccgagcga agatgtcgtg gcagacgtac 120
gtggacgagc acctgatgtg cgagatcgag ggccaccacc tcacgtcggc gggcatcgtc 180
ggccaacgacg gcgccacctg ggctcagagc accgcgttcc ccgagttcaa gcccgaggag 240
atgggtgtca tcatgaagga tttcgacgag ccggggcacc 280

<210> 40552
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F12

<400> 40552

ccccacgca tctggacaag gccactgaaa atattaagat ggacgaagat gagcagaatg 60
catcgagtct gacagaagat ggaagcacat tattacctct accagtacca gtaccactaa 120
gcaatgatat tgtaattatc ccaaagatag tgagaaattt tgatcaagaa gagaaacaga 180
tccaggattt gaaaagtaac atgtccactg ttaagtcttt catggagcag ttaaaaactgc 240
tgtactctga agaccttaaa aagcttggtg atcatttgcg tattatttct catgcgggctt 300
ctgggtaccg caaggttggt gaggaaaacc gcaagcctta caa 343

<210> 40553
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F3

<400> 40553

caaaccctag cacacgcacc atggcggcgc agcagaagat ccggtggggg gagctggagg 60
aggacgatgg cggggacctc gatttcctcc tgccgccccg cgtcgtggtc ggacccgacg 120
agaacggcct caagaaggtc atcgagtacc gtttcgacga cgacggcaac aaggtccggg 180
tcacgaccac catccgcgtt ctgaaactcg ctcgggcgcg cttttccgcg agcgccattg 240
agcgccgcca gtggcctaag tttggggacg tctctatgg aggactctgg ttttcatgtt 300
ttactatggg tttttacttg atgagtattc ttttttgt 338

<210> 40554
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F4

<400> 40554
gcaagcagca gcagcagtta cgacgacgac gacgacgaca tccaactccc agaaagccca 60
ttcacgtcgt cagccgtgcc gatgctgatg taatggggcg ggaaagggaa accaacgtcc 120
acttaattag cttcttttgt tacacaggac aggacaggac acaaaaacac cctctttttt 179

<210> 40555
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F5

<400> 40555
cggacgcgtg gggatcacac tcgcagagag aaggaaaaat atccccaac cctaagtccc 60
gatctggagg gcgaaccctc gcggctgctg cgacatgacc ggcaaggagg ccccaggggg 120
ccggatcgtg atggagctgt acaccaacga ggagcccaag accgaggaga actttcggcg 180
ctgtgcactg acgagaaggg cgtgggcaaa ttccagaagg cgattcacta caagggctac 240
acctt 245

<210> 40556
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F7

<400> 40556

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cccagccgtg tggagcaaga actcctgcac caagaagtac gactgcaaga tccttcccaa 120
ctcgctgggtg atggacttcg tgaacaacgg ggaggtgtcc ggggtcacgc tgetcaactc 180
caagttcttc cacatgaaca tgtaccgggtg caaggacatg ctgatcaagg acgtgaccgt 240
gacggcgccc ggggacagcc ccaacacgga tggcatccac atgggcgact catccgggat 300
caccatcacc aacaccgtca 320

<210> 40557

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F8

<400> 40557

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ggtagtcagc acgttcaatg gaccgggat tgggatcggg ttcggtgtcg gctgcgggtt 120
cggcgtcggg tgggggttcg gaggaatgcc tcttaacatg ttcggcttgg gtatcgggtg 180
gggttgtgga tttggtcttg gactaggatg gggctttgga aatgcttttg gttgtcagta 240
tcgatcttca agagttcagt tccaaggcat tgaatttcag aagaaggcgg aaggagatga 300
tgccccaaaa gttgtttcac cggagcttgc tcaaa 335

<210> 40558

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F9

<400> 40558

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gccatcagtt tccaccgcac gtccggaccc cctctccggc gtgccgacgg tatccatggc 120
ggcgggtgggtg cgcggcgctc tgaggggcat caaggagaag ggactcacca acttcatccg 180

cgacgtccgc aacgaaggat acttcaaagg ccttctggac gggaaccttt ggcaaacgaa 240
aatccacaat attggcgcac acttggtagg agtggccaag tttgggacca aatTTTTTgg 300
gaacctcctt g 311

<210> 40559
<211> 346
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-G10
<400> 40559

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tagatcataa cattcatcgg tggggcgtat cactttatgg gcgggatcca gccttgtcaa 120
cactacgacc acctggaata catggtgctg gcccgctact tacacagata acccaaacca 180
tgcaaataccc acttacctat gctgaagaca ttataggagt taaaggagca aatattgcgt 240
acatacgagc taatagtggg gctgttgta caattcanga gagtttgggt agtccagatg 300
atattactgt tgaaataaag gggacatctt cacaggtaca agctgc 346

<210> 40560
<211> 305
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-041-Q1-K1-G11
<400> 40560

aacagccgag cgatctcttc tccctctccc tctccgatcc attctccagc gcagcgaagt 60
aaacatgtct gaccgggcaa agatgtcgtg gcaggcgtac gtggacgagc acctgatgtg 120
cgagatcgag ggccaccacc tcgcggcggc ggccatcgtc ggccacgacg gtgccgcctg 180
ggcgcagagc acggcggttc ccgagttcaa gaccgaggac atggccaaca tcatgaagga 240
cttcgacgag ccagggcacc tcgcgccgac aggcctgttc ctgggaccta ccaagtacat 300
ggtca 305

<210> 40561

<211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-041-Q1-K1-G12

 <400> 40561

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 ttgatggcca cccaagtaca ttgaaaagag taaaatcaga tggcactatt cttcatgaaa 120
 ggaaagcttc tataatctggc tctggtcggt gccataatga accgataagt gcatcgcagc 180
 ctgatgtaca aaatgggttt caattcccaa cttcagaatc cgattcactt catgaaaatg 240
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<210> 40562
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-041-Q1-K1-G2

 <400> 40562

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 tgctgtccgt gcgcacgacg acgacgtcgc tgctagcagc agtcattcctg tgctctgca 180
 tcgtctccct ctccccccgc ggcgccgctg ccgcgcgggt ctccccccgc gccagcccga 240
 tcgtggccac ctgcatgacg ggcccgtacc cggagctgtg cgtgggggag ctgggacagc 300
 ggctgctgga cgtgcagacg tcgatcgcgt ncgcggcgcc cgaccagcgc gcggccagga 360
 tc 362

<210> 40563
 <211> 143
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-041-Q1-K1-G3

<400> 40563
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 cgagtctccc ggtttgaaga ccctgcgggg ggggcctttt gattcgaaga tgaccgcggc 120
 ggtgctgccc ggcgccgata cga 143

<210> 40564
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-G4

<400> 40564
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 cgacgtcgag ctcgctcgccg tgaacgaccc cttcatcagc accgattaca tgacctacat 120
 gttcaagtat gacactgtgc acggacagtg gaagcaccat gaggtcaagg tgaaggactc 180
 caagaccctt ctctttggtg agaaggaggt tgctgtgttt ggctgcagga accctgagga 240
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 cca 303

<210> 40565
 <211> 342
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-041-Q1-K1-G5

<400> 40565
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 tggctatggc tcgctccgtc gcgcacctct tctttcccat cctccttata ttcaccgcgc 120
 ccgccgtgcg ggccattacc gacgcgcgcg gcgggcccgg atacctccag gaggcgtgca 180
 acaagacgct gttccccaag gtgtgcatgc acgcgctcaa ggacaacca nagtgccagg 240
 cggagacggc ggtcaccctc gcgccgctgg ccgagctgct cgtgtacgtg tcggccgagg 300
 tgggcatgac cgtggccgcg ttcgcgcacc acgagctcaa cg 342

<210> 40566
 <211> 307
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-041-Q1-K1-G6

<400> 40566

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 catttgctgt gggatttgct tcacgtttta tggagaagcc tactaccgag catctgcttg 120
 ctgtgaagcg agtgctgcgg tacgtancat gtacttcgga ctatggctgc tactatcaga 180
 gaaggaagaa accagcaggg ttgaccgggt acagtgcag agaccatgcg ggtgatgttg 240
 atactcgcaa gagcacgaca agagtgggtct tcttccttgt gggcagcttc attactttgc 300
 aatcaca 307

<210> 40567
 <211> 191
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-G7

<400> 40567

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 gcacacgctc gcggggccct cactcaaggt ggatccccac accggtgccc tagccgaagg 120
 ggtgctcacc ttcgctcatca ccctgaccgt gctctgggtc atcgtcaagg gccccgcaa 180
 cgtcatcctc a 191

<210> 40568
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-G8

<400> 40568

gcctcatgcg cgactcccc acgcacatcg gcttcgcgac cagggccgac ggcgacggca 60
 tctccctctt ctccgccacc aacgtctgga tcgaccacat ctccatgtcc aactgcgagg 120

acggcctcat cgacgtcgtg cagagctcca cggggatcac catctccaac tgccacttca 180
ccaaccacaa cgacgtcatg ctcttcggcg ccagegactc ctggccgcag gaccagatca 240
tgcagatcac cgtcgccttc aaccacttcg gcaggggcct ggtgcagcgg atgccaaggt 300
gccgctgggg cttctttcac gttgtcaaca acgactacac gcact 345

<210> 40569

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-H1

<400> 40569

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caccttcgag gactccgaga aggagagcga gtacggctat gtccgcaagg tctctggacc 180
tgtggttgtg gctgatggaa tgggtggtgc tgccatgtat gaacttggtc gtgtcggaca 240
tgataacctc attggggaaa ttatccgtct tgagggcgat tcagctacaa tccaagttaa 300
tgaggaaacc gctggactga tggttaatga cctgtattg agaacaagaa agcctctttc 360
agttgaatgg ggacctggaa ttcttggaac atttttgacg 400

<210> 40570

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-041-Q1-K1-F11

<400> 40570

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ggccaccacc tcgcggcggc ggccatcgtc ggccacgacg gtgccgcctg ggccgagacg 120
acggcgttcc ccgagttcaa gaccgaggac atggccaaca tcatgaagga cttcgacgag 180
ccagggcacc tcgcgccgac aggcctgttc ctcggaccta ccaagtacat ggtcatccaa 240
ggcgagcctg gtgccgtcat ccgtggcaag aagggatcag gaggcatcac cgtgaagaag 300
acagggcagg cactcgtcgt tggcatctac gacgagccga tgacgcctgg gcagtgaac 360

atggtggtgg aaaggctggg cgactacctt gcttgacagg gcatgntact actacgtacc 420
agcttgaatg catgtcgacg ac 442

<210> 40571
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-H10

<400> 40571

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agattggtag ggagcccaga gggatgatggg aatggcgaag gagcagcact tctgtcttgt 120
tcatggcgaa aggcattggg cctggtgctg gttcaagctc cgctggctcc tcgagggcgc 180
tggccaccgt gtcacgtgcg ttgacctggc cggaggcggc gtcgaccta cgcaccccaa 240
caccatccgg tccttcaagc agtacgacaa gcctgtcata gacctcatct tcaacttgcc 300
agacggagag aagggtgattc tgatcggaca tggcgcttgg aggctgaatg tgaaccatgc 360
aatgcatgga tttgttgaca ggatctgtca agcatttttt cgtg 404

<210> 40572
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D2

<400> 40572

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tctgcatcag cgtcgttatc atgcaggctg gtggaatgcc acagcgggac aggagcatgg 120
ggatgagcag gcgcaagatg actgcaagtg gcgccggatc ccgacattcg gcgactggaa 180
cctgcgggac gacatgcccc ttaccttaata cttgcaagca gggac 225

<210> 40573
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-041-Q1-K1-D3

<400> 40573

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cttcggctcc cgtcgtcccc ttccttgaga tctctaggat acgagcgcat tcgcatcgct 120
tcgcctccgc cgcggcctgg ggagatggcg ggtttgggaa aggcgatgta cgcggtggga 180
ttctggatcc gggagaccgg tcaggccctc gatcgccctg gctgccgcct gcagggcaag 240
tacttcttcc acgagcagat ttcaaggcat cgcaccatca tgaatatctt tgacaaatcc 300
cttattggtg atgttcaagt cgggcaagga gcttccattt ggtatgggtg cgtcttaaga 360
ggggacgcan acaacataca aattggatct gggaccaata tacaagacaa ttctcttgtg 420
catgtggcta aatctaatac 439

<210> 40574

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D4

<400> 40574

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acgcggttg agcaagagct cctgtagcac taattacgac tgccacattc ttcttaactt 120
gctgttgatg gacttcgcca acacaggtga ggtgtgcggg gggacactcc tcaactgcaa 180
ggatgccaca tgaacacata ccggagcgcg gacatgcttg tcaaggacgt gaccgctacc 240
gcgcccgggg acagcc 256

<210> 40575

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-041-Q1-K1-D5

<400> 40575

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gcgcgatggc gccaccagg atccgcgtgg gcttgctgag cttggcgctc gtggggctgc 120

tcatttgcca ccttgccacc accgccttcg tcggcaagaa cagaatccgc atcctcgaca 180
 gcgtcgacga ctcggccggg gacaacaaca gctccgacgc ctcgggcggg gacaacagca 240
 ccgactccga gtcggaaggc cgcgtcgtct attccgacat gaagctggct gatgagacgg 300
 gatctgcgcc ggctccggca ccggcgccgg ngccgacgac cagttgaagc gaggaaggtg 360
 gccaaaactg atggcccggc tactatcttt t 391

<210> 40576
 <211> 257
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D8

<400> 40576

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 agcgagggcc accgatccgg tacggtggcg cctcgcatca agagatgcga gatggggcgt 120
 caagtcgaaa ccagttctaa tgataggatc agtgtatctc tgaagatacg gtatgggtta 180
 ccctaccgta tttgtaaagt aatgatgccg gccgaacgac ctttcctaac gcgtttgggc 240
 agaaattcgt tgctgtc 257

<210> 40577
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D9

<400> 40577

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 atgttgcgat ggctgtggcg ttggtgttct tggtagcgcg cgcatggtgc ggtcctccca 120
 aagtcccccc aggcaagaac atcacggcca cctatggcaa ggactgggtg gacgctaaag 180
 cgacatggta tggcaagccg acgggtgccg gtcccgacga caacggtggc ggctgcgggt 240
 acaaggacgt gaacaagccc cccttcaata gcatgggcgc atgcggcaac atccccatct 300
 tcaaggatgg tctgggttgt gggctctgct tcgagatcaa gtgcgataag cctgtggagt 360
 gcttccgcaa gcccggtgtg gtgcacatta cggacatgaa c 401

<210> 40578
 <211> 205
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-041-Q1-K1-E10

 <400> 40578

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 ctagcctgtg taggtttgtg ctggtacatt gagagctctt atttatttgc tttgattgca 120
 attaaccagg atgaccatag ccctttgttt tggttttgct tgttttttat aaagtttgca 180
 ttgaaacaac cacttctgtt tgggt 205

<210> 40579
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-041-Q1-K1-E12

 <400> 40579

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 tcttggtcgg agaacctgcg aggaaggact aatgagtcga agatgactgc ggcggtgctg 120
 tccgtgcgca cgacgacgac gtcgctgcta gcagcagtca tcctgtgcct ctgcatcgtc 180
 tccctatccc cccgcggcgc cgttgccgtg cgggtctccc ccggcgccag cccgatcgtg 240
 gccacctgca tgacggggccc gtacccggag ctgtgcgtgg gggagctggg acagcggctg 300
 ctggacgtgc agacgtccat cgcg 324

<210> 40580
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-041-Q1-K1-E3

 <400> 40580

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 cccacccttt agcaaagaga aaacgatgtg catgaagagc tgctgcaaca agtgcttcca 120

ccacggcccc ccagcgctg gtcctggccc gaagccgagg ccgccaatgc ctggtcctcc 180
gaagccgcct gccccgaagc cgaagccgag gccgccagcg ccaaagccac cgacgccccaa 240
ggcgccgcca ccgccaaaga aagccgtgtc cctgcccccc gggcagcgac gaggccaagg 300
ccgacagcaa aaactgattc atacgatggg atggatcggc cagtcatcat cagaagcact 360
catattagta tatacacatc gtaagtacgc gtgtacgtgt aacgtacgta ctc 413

<210> 40581
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-E4

<400> 40581

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ccggctcccg tgcgcgtgct ctactgcggc gtctgcgggc tcccggccga gtactgcgag 120
ttcgcccccg acttcgagcg ctgcaagccc tggctgcgcg cgcacgcgcc cggcgtctac 180
cccgacgacc ttgtcgccgt ctctactaa cccggcgggc gcgacaagga cgtccacaag 240
gtcggggatc gccttcaggg cgtcgggatc tccgacagct ccaccggcgc cgcaggggat 300
gcttcgcgct ctaagcccca agaggcgaaa cgctgcctg gtggtttagct caag 354

<210> 40582
<211> 187
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-E5

<400> 40582

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atgtatatat caaacaacaa actaaaagat ggggttaaagt aaaatttgat gcaatgccac 120
ttgcatagta aagtaatcac ttacctggtt aaatctttca agggggtaac aaggggtcaaa 180
tatgttt 187

<210> 40583
<211> 373

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-041-Q1-K1-E6

 <400> 40583

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 gttcaaggac accggcaccg ccaagatcat gctgcagctc gccgtccagg acttcgactc 180
 gtgcgaccgc cccttcaccc aggccggcgt ccccaacccc atggggaagt ttgacaagga 240
 gctcaaccag atggccaaca actgcatggc tcttgcanac atgatatgaa ccacgcatgc 300
 aacctcaggc gtgagggtgcc atcgcatgca ggggaatgctt gcattcattt ttcatttaat 360
 taagaattca ttg 373

<210> 40584
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-041-Q1-K1-E7

 <400> 40584

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 accctccacc tgggtgctccg tctcaggggt ggcatgcaga tctttgtgaa gacactcact 180
 ggcaagacaa tcacccttga ggtggagtct tcggatacca ttgacaatgt caaggccaag 240
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 ctggaggatg gccgcaccct ggccggactac aacatccaga aggagagcac cctncacctg 360
 gtgctccgcc taggggtggc atgcagattt ttgtgaagac attgactggc aagaccatca 420
 ccttgagggt ggagagctct gacaccattg ac 452

<210> 40585
 <211> 454
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-E8

<400> 40585

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taatagtaga gagtccagat atggtaatag taaagagtcc agatatgata atggtagaga 180
gtccagaaat gataataata gagagtccaa atatgcagcc aaggttgagg atgaatttga 240
ggatcatcat tccctgagat cgactcatct tgctgattcc tggcaaaaaa ccagaggtcg 300
gagtggttcg aatgactaca gaagggcatc ttttggatca gagagtgatg atgagatcaa 360
ttcttatccg gacgaggaca ttgacaaagg tcctagaaat aatggaagcc gtagtcaggg 420
aagtaccaac agagcttttg tangcacaat gcac 454

<210> 40586
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-E9

<400> 40586

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tcctcctcta ttccaaggat attaagctct atggagagat ggtcgaccaa gaatgaattg 180
aacaacaata tataaggctcg catgcgcaac caaacagcta catgtacatt gcaggcgtgt 240
gtgaaattgt ttatttattt tttgcat 267

<210> 40587
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-F1

<400> 40587

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tggctcctcgt ctgcatcgtg catggtgaga aggaagagtc aaagggcatc gatgctaaag 120
 cgtccggggcc tgggtgggtac ttcgacatca ccaagtaggg cgcctgcggc actctcatga 180
 catacaactt ctttgctatg aacatgtccc ggtccacggg catgctgttc aatgacgtga 240
 cctttactgt tctttgcgac agtcccatca cggttggttt cacatg 286

<210> 40588
 <211> 289
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-041-Q1-K1-F10

<400> 40588

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 tagcggcgag gcggcggagg cgaanaagat ccaggacgac ttctgctcga cgctgtgcga 180
 gggcaagaag gggacggacc tggtcgtgtg caaggagtcc tgcgctctct cccagcagtc 240
 caacctggtg ctgttcggca ggatccagtg caagggcaag tgcaccgag 289

<210> 40589
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D12

<400> 40589

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 tccaactata taagctatatt atgtcctgat gaagtttatt actgacattt gactgaacca 180
 tcagctactt gtagcattca tctccagtct tgttacacat ggatttattg ccatctcttg 240
 cctgttgagt tgcgcacttg ggttgaagcc taccagctgg atttttgctc tgccgcacct 300
 gtgatgctac tgctgggggg caatggatat agcaataaca ccagctactg ctgggggggca 360
 atggatgtag caataacacc agcccatgct tgacacctt 399

<210> 40590
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-B5

<400> 40590

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acctgaacta tgtggttctt ttttctccaa atacactcct gcaattgata tttggagcat 180
tgggtgcata tttgctgaac ttctcactgg aaggccacta ttttctggga agaagtgtgt 240
acaccaatta gatattataa cagatcttct tggaactcca tcacttgaga ccttatctcg 300
gatccgaaat gagaaggcca ggagatactt aagctgcatg cggaaaaaat atcccgtgcc 360
ctttactcat aa 372

<210> 40591
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-B6

<400> 40591

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aacgacaacc gcgcgcgagc tccaccttca ccaccatccc accggcatcg aggcattctc 180
acgagtgata aggagctggg cgtggaagaa gttcatgact ggatggtgcg caactctcgt 240
acatatgaat actgcggcat cctgct 266

<210> 40592
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-B8

<400> 40592

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attcttacat gcttcaacag ttcgataacc ctgccaaacc taaggtagat tatgagacta 180
ctgggtccaga gatctgggag gattcaaagg ggaagggtgga tatattcatt ggtggaattg 240
gaacagggggg gacaatatct ggtgccggcc gttttctcaa ggagaaaaat cctggaatta 300
aggttattgg tattgagcct tctgaaagta acatactctc cgggtggaaaa cctgggtccac 360
ataagatcca gggaatcggg gcaggatttg ttccaaggaa cttggatagc gatattcttg 420
atgaagtaat tgagatatca agtgatga 448

<210> 40593

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-B9

<400> 40593

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caacatgggc tctgtgcttc tggaagctgg acttgccaag ctgagttcat ttggcttgga 120
taggacctca gatgcttata tcctaacaag agctgaacag tctgcgaagc aacagaagat 180
taagatatgg gagaactatg tcgaggggtga aaatgcttcc aatggatcca cacctgaatc 240
taaacaaaag caaattctca aggttgttgt cacggaagtt cttggtggtg ggaagtttta 300
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acttaa 366

<210> 40594

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-041-Q1-K1-C1

<400> 40594

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tggaacctata tatccaggag cgacgaagtg atccaccgcg cagccatgga gatgaagaag 120

gtcctctgcg ccgccctcgt cgccgccgcc tcggccaccg ccgtgctggc ctcggtcgcc 180
 tccgaggcgc cctccgagge gcccgccggc gcggacgggtg gtgcggctgg ccctagcgca 240
 agcggcgccg acgccgacgc cgtgcccgcc gccggggcgc tcgtcgccctc ctttctcgcc 300
 tactacctnc actgagcgac gacgcgcggn gcggcaacgt tgggatgcat cgagtttggg 360
 tcatacgatt aattaattgc tttttttatt t 391

<210> 40595
 <211> 297
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-041-Q1-K1-C11

<400> 40595

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 aagttgattg ggacaaatgg gttgacgaag atgatgatgg tgctgatgtc aacttggatg 120
 ggatggactt ctogaatttt ggcggtatgg gtgggtatggg tggcatgggt gatatggctg 180
 gcttgggtgg tcttggtggc atgggtggaa tgggcggtat ggggtggtatg ggaatggatg 240
 attntgagga tgatagtgat gaagaggaag tgtcgaaacc tcaagctgcc ggacatg 297

<210> 40596
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-C12

<400> 40596

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 ctggaggatg gccgcacct tcgcgattac aacattcaga aggagagcac ccttcacctg 180
 gtgctccgtc ttatgggtgg catgcacatc tttgtgaaga cactcactgg caagacaatc 240
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<210> 40597
 <211> 449

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-041-Q1-K1-C2
 <400> 40597

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 gcgcattcgc atcgtctcgc ctccgccgcg gcctggggag atggcggggt tgggaaaggc 180
 gatgtacgcg gtgggattct ggatccggga gaccggtcag gccctcgatc gcctcggctg 240
 ccgcctgcag ggcaagtact tcttcacga gcagatttca aggcacgcga ccatcatgaa 300
 tatctttgac aaatccccac atgttcatag ggatgcattt gttgctccaa gtgcatccct 360
 tattggtgat gttcaagtcg ggcaaggagc ttccatttgg tatgggtgcg tcttaagagg 420
 ggacgcaaac aacatacana ttggatctg 449

<210> 40598
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-041-Q1-K1-C3
 <400> 40598

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 gcctcgtggt tcttcacgta cgacgacttc atcgaggagg cgtcgcagca gctgagctgg 120
 gcgctgctgg gcgtgcccat cgcgctcgtc ctctcatcc gctggatctc ctccgtcgac 180
 tccttcgagg gctacctggg cttctacccg agggagagcc gctggaaggg ccgctacgag 240
 cggggccccc cagagggcag ctgcacctgg ggcgtgcct tgctcgtcct cctcctcctc 300
 gtgctcgcca gtttccactc caccatccac gacatgtggg ggccgtgaac ggccggatgt 360
 gggctctgct cctgttcgat tccacgcgcg cacgtatgcg attgtactgc tggttgctgc 420
 ttgatcgatc gatggatcga tgattccatg tacatatt 458

<210> 40599
 <211> 194
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3075-041-Q1-K1-C4
 <400> 40599
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 cagacatacg tcgatgagca cctgatgtgc gagatcgagg gccaccacct gacctccgct 120
 gccatagtcg gccacgacgg cgccgtttgg gcccaaagca ccgcatttcc acaagtcaag 180
 acagaaggaa gatg 194

<210> 40600
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-C5
 <400> 40600
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 gctacgagca gaacctgctc gccttcttgc agaacaagat gaacccggac gccctgctcg 120
 tgcagctcat cgaggagatg gacaagtga tcctcggtta cttcttcttc cactggaaat 180
 atgcgaccca cataatcacg caggttctga cgcacgagca gcctagaaga aagctcagaa 240
 gaatggttat ggaggccact aggaagatga ggtttgagag ggtgacgaga gagctgaaag 300
 ttaccaggct gttcaccacg ctggtggagg agtcaaggc catcggtgtg cactgtcagc 360
 acgaccacaa acgggcgggc acggacgt 388

<210> 40601
 <211> 171
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-041-Q1-K1-C6
 <400> 40601
 aacaccctga atttgagggt ataaaatttc ttctccaaat accaaccaaa ttcagggggt 60
 acctcttggc tctctctctc ttttctttt gattaaaagt aagtgaatta ggcgaggggt 120
 taattattta ttttgtcaaa acttatgtga gtcatgaaat gttgcctccn a 171

<210> 40602
 <211> 266
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-C7

<400> 40602

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 ctctctagat tgccaagagc gggggccttt aagttattca ttctgctcgc catgggtggcg 120
 ctggctacgc tattctcgga cggctcatgc accacccctg tcaccttaca agccggcaag 180
 gtctacaagc ctggccactt ggtccccacc cccaacgttg ccaccatcta tgacatgtag 240
 atcaacgagc acggttgtga ctactt 266

<210> 40603
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-C8

<400> 40603

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 tgcaaaaggg gtggactgca gtgtacaaca gttggggaag agccagtaaa tctgtttctac 120
 atgttcaaag atttgtcagc tgtgaatgtg aaggcgactt cgctgaacct cttacacgat 180
 gaccagaaa tgctaggtta ccttgagcag accggtgatg ttgctcagga gggagacgtt 240
 cttatctcac caatggagat tctggcatat aagttggacc tacaaccacc atcatcgag 300
 gaagagtagt tttagtttgt gaaaacagta catgcatatt gaacagtcct acatgacagt 360
 gaagatggat ctttccgaaa tacttga 387

<210> 40604
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-C9

<400> 40604

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 ccgccttcgg cggcgacgac acgtacttct tcgccgaggc ccccgacgtg ccgtccatgg 180
 tgctcccat ctgcgacgac tttgacggct tccaggcggc caccaaggat atggtgaaga 240
 ataagaaggg gacgaccacg cttgccttca tcttcgacaa gggcgtcata gtcgccgctg 300
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<210> 40605

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D1

<400> 40605

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 ctccacgcat gggcagtctt ctccgacctc gataaaagag gctgcagtgc tgaagacctg 120
 ctctcgaaa tggaccgtat cctcaggcct accggggttg ccatcgtagg ggacaagggc 180
 actgtcatcg aattcatcaa gaagtacctc cacgcgctcc actgggaagc agtagcggct 240
 gcagatgccg agcccagctc ggaatcagag gagaacgaga tgatcttggg gatccggaag 300
 aagttgtggc taccagaagc aggctcgac acgtgattcc cttcccggcg tctgcagctc 360
 agaagcgagg cgccagctgc accagccatg atttatttct agccttaatg cacacatgga 420
 gatagattta ttattta 437

<210> 40606

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D10

<400> 40606

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 gggctcttcc accggcgagg ggaatgcgtt caacaagatc gtcgacatcg ggagccttgc 120
 cctcgtgata tacagggact actatggccg cctcgacgtg atcggcgatg tgggtgtcca 180

gtacaaggta cttcgcgtac gcattgatct gggcaagggc ct 222

<210> 40607
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-D11

<400> 40607

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aagagagatc cggcgcggcc caataaacac ccggctcact acagactcgc agatggccgg 120
cctcaggatg aagttcgtcg ccgtcgccgc catggccgcc gcgctcgtgg cgttcgccgc 180
agcgcgaggg tccgcccggg cccggtcgac gcgggctctt aagatcaact actacctgct 240
cacgatactc ttatggacta atcatactgc gcgttcacgc ggatggaacc tgcgtccact 300
atcgctgaga atcccttgca gt 322

<210> 40608
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-B4

<400> 40608

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ctatacctgc acatcggcgg ctctctcccc tgcgccaaagt ggatcgtctt cgacagcctc 120
gccgccgect ccttcgtacg caccggcgac gacgaggacg acgacgcgcc cgccggcggy 180
ccgtggtgcc tcgtcgtggg ctgcaagatc caggccaggg tcgggcccga gctgcagctc 240
aagaccttcc ccgcgcagcg ccgggtggat ttcgttgccg acggcgtatg ggcgcttaag 300
ttccgccacg ctgacggctt cggtgacttc tgcgcgaagt accacagctg tatgtttgag 360
aaca 364

<210> 40609
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-F10

<400> 40609

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cgggcgtttt ccccttttgt ttcccatgga ggacgccaag atggggaacg gctccaccat 120
ccgcgcggtg ctgcgcatcc tccagtgggtg gggattcaac gtcaccggca tcatcatcaa 180
caagtggatc tttcagaaac tggagttcaa gttccccctg acggtgtcgt gcgtccactt 240
catatgctcc tccatcggag cctacatcgc gatcaaagtc ctgagaacca taccgctgat 300
cgaggtggcc ttggaggacc ggggggggga gatattcccc atgtcgttgg tgttctgcgt 360
gaacatcggg ctgggggaaac ggtagcc 387

<210> 40610

<211> 170

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-F3

<400> 40610

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aggggggagca gcagccggtg tgtgacgctg gtactgtaac gtctccgctt gctgcttctg 120
gttgggggttg cgcaagcggg attggagttg gtgcctgctg atgaataata 170

<210> 40611

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-F9

<400> 40611

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gcctggaaat gagaccttgc cagtcgctct gtacgacaag ttcgatgatg actacttoga 180
gaagtacctg tacgagctcc agtgcgcat acgcgacggt gcaaactct tctgctactt 240
cgctggccg ctgctggaca 260

<210> 40612
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-A1

<400> 40612

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atcaagaacg gagggcgcggt cgtggtcctc aacacccaga acctgccgct cgtcaaggag 180
gtcgggctcg gtgctgacct tgtcaggatc gacgcccact ccatgtgctc gcccggcttc 240
tcctgcgact ccgcctacca ggtcacctac atcgtgcgcg gcagtggccg cgtccaggtt 300
gttgggatcg acggcacgcg agtgc 325

<210> 40613
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-A10

<400> 40613

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ccgcagctgc agccgcggcg caggcatcca ataacgtcac ctccgacgag gattactggg 180
cggagcgcgc cgaggtggct cggtcgcgca acctcgccgc ctacgtcagc gaccccgctg 240
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ggtacgatgg cccgtgcatg gcgaccaacc ccatcgaccg gtgctggcgc tgccgcgccg 360
actgggcgac ggaccggaag cggctggcgc aatgcgcg 398

<210> 40614
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-A11

<400> 40614

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gagaaggcgt cgtcgtacag gtactgggtg cgggaggcca cggcgacgc cgcgccgctc 120
cccgtcccg cgaagctcga caccgctgcc aacgggaacg ggaacccgcc gcccgctcggc 180
tccgtctgga atcaggctgg aacatgggag gaaaagaacc tcaactcatg ggccaatagt 240
agaataaagg atttgatggg ctcttttaggt tcattggcct tccctacagg gaaggcatct 300
attgacgaag tgtccaagtg ctcaagcgac gcatttcagg tcattgtccg caacaagaag 360
agagtaggat ataactatga actaagcttg agatttagcg gtgaatggtt aatcaaagaa 420
gtaaacaatga tgttcaaagg gcatttagac atttccgagg ttt 463

<210> 40615

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-A12

<400> 40615

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caagtggcag cccaaggacc agatcggcag cttctttctac ttcccgtcca tcggcatgca 180
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gttcgaccag cccccgccgg agaacgacca cgtggtgctc atcggagact ggtacaccaa 300
ggaccacgag gtgctagccc gccagatcga cgccggcaag ggcgtggggc gccccgcggg 360
cgtgc 365

<210> 40616

<211> 71

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-A2

<400> 40616

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aaaaactttt t

71

<210> 40617
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-A5

<400> 40617

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gtcctcggcg tcgtcctccg cctcctccag gacctcgcgc acctggctct tcggcggcgg 180
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gcagcaccag gggctcatgg acgacgcctg ggacgcccac tcggtgaagg acagcaccag 420
cggcacatg 429

<210> 40618
<211> 115
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-A9

<400> 40618

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<210> 40619
<211> 366
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-B1

<400> 40619

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 gcgaatgcga atgcggagcg gggcgggctg gcggggctgg ccgggctggc gctggcgcan 300
 gcggcgcant gcggtgccga gacgggtggc ttcgtcaagg gcctggagaa aatgccgggg 360
 ggcatg 366

<210> 40620
 <211> 462
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-041-Q1-K1-B10
 <400> 40620

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 aggacggcgg cggaataaag aagccccacg tcaaccacgg caagtttaag gcggagccgt 180
 ggacggacgg gcacgcgacg tactacggcg ggccgcgacgg gttaactgac accacggacg 240
 gcggcgcggt cggttacaag ggcgagctgg ggaaagacta cggcaccctg acggcgggccg 300
 tggggccgct gctgtacacc aacggcaccg ggtgcggcgc gtgctatgag ctcaagggcc 360
 ccaagggcac cgtggtggtg acggccacca acgaggcccc gccgcccgtg aagcggcaga 420
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<210> 40621
 <211> 469
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-041-Q1-K1-B11
 <400> 40621

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cgacgtcacg tccgtgaacc ccaaggtctt tcacatggcg ctgctgtctg tgaagaacat 120
 ccggatgagc gggctcaaga tcagcgcgcc ctccaacagc ctcaacacgg atggcatcca 180
 catcgagcgc agcagcggga tatccatcat ggacacgcac atcagcacgg gcgacgactg 240
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 ccacggcatg agcgtcggca gcttgggtcg ctactccggc gagggagacg tcacacgggt 360
 gcacgtncgc gacatgacct tcacgggcac catgaacggc gttcgcacat agacatggga 420
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<210> 40622

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-041-Q1-K1-B12

<400> 40622

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 ggcatctcga cgagtataa ggagctgggc gtggaagaag ttcattgtct gatggtgcgc 240
 aactctcgta catatgaata ctgcgtcatc ctgcttcga tcgccatcac cttttacacg 300
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 gtcacg 426

<210> 40623

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-B2

<400> 40623

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ccgtggtggc taccgccgcg ctggcgagcag ctccccggccc cgcggcgacg ccgagcgggc 180
 cgccgaacgt gacggcgatc ctggagaagg gcgggcagta caccatgttc atgcggctga 240
 tgaaggagac gcagcaggac acgcagctga acagccagct gaacagctcg tacgccagca 300
 gcgggcgggc gtacacggtg ttccgccccca ccgacaacgc cttcaacaac ctcaagcccc 360
 gcacgctcaa ctgctgacg c 381

<210> 40624
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-F1

<400> 40624

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 tgggtatggg tggcgggtggc gtggggaggc ggaaggcggg ggccgccgcc gccgcggcta 120
 gtcgggagtg gatggtggtg ccggcgctcg gcccggcgcg ggtggaggaa gcagggaagc 180
 acgcggtgat ggcgcgtacg gggcttcccg cgcgcgatct cagggtgctc gaccggttac 240
 tctcgtaacc gtccacgac ctggggccgag agcgctccat cgtcgtaaac ttggagcgcg 300
 ttatagctct gatcacagcc gcggaggtgc tgtttcctaa caccaag 347

<210> 40625
 <211> 145
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-B6

<400> 40625

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 ggggacatga ccgtctgcgt ctccccgtct ggcctgatct ttaaggagct gtactccaac 120
 gttgtgcccc ataccgctgt taact 145

<210> 40626
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-B7

<400> 40626

cggacgcgtg ggaataattg ggaataaata gttcgtgaat ccctgaagcg tgcatatata 60
tattcctgcc aagataaagg taatggagtc gtcacgcagg ttccagccgg ccgtcatcct 120
gcttctcctg ctcatgtgt ccaccgatat ggcacaggca agggaatgag agaagtacag 180
tgagcgatgt gttggggcat gcatgatcgc agacaactgc gccaatgtgt gccgcggtga 240
gggcttcttg gccggcaggt gcagcacctt ccgccgcgcg tgcattctgca ctaggcagtg 300
ctaaacaaga tcgctcgatc gctcgccatg catcgacaac ctattcttaa taacgttcat 360
tatctcgttc ttatttatga ccaatgtcat gtatgttctg gtgactgtca tgtatattct 420
gatgactggc atgtatcttg ttcattgatg 450

<210> 40627

<211> 178

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-B9

<400> 40627

gattccgaga agagcagtat tacttcaaata tcatgtgctg gagatgatta tagagacata 60
gggtggggag acgagtcggg cagctgtaac tgcgaggata aaaccgtctc agaagcatta 120
gagtctggtg caaatgaaag acccttggag aaaaccatgg ttcctaatga aagaaagc 178

<210> 40628

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-C9

<400> 40628

tccacgcatt cgtgaagatg ttatatacca cacattctgg ttggctgagg gatggtcact 60
tcgggggtca ccagggtgca tgcggtgaaa gcac 94

<210> 40629

<211> 334

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-040-Q1-K1-D10

 <400> 40629

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 cgaacaaggg tgtcaaccct gatgaggctg ttgcctttgg tgccgctgtg caggggaagca 120
 tcttgagcgg cgaggggtgg gacgagacca aagatatcct cctccttgat ggggctcccc 180
 tcaccctggg tategagacc gtcgggtggag tcatgaccaa gttgatcccg aagaacactg 240
 tcattccgac caataattct caggtgttca ccacctaaca gtaccaacat accactggct 300
 ccatccaggt cttttgaggt gagctcagta tgac 334

<210> 40630
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-040-Q1-K1-D12

 <400> 40630

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 taaagatgct aaagaacaac tactttgtta tcaggcttgc tgattgcac cagctcaaag 120
 agttccacat atctagtttg agaatccac gtggtctgga agctcctcaa agcaagccct 180
 ttcatgcagc agataaggcc accggacgcg gtaatcgctg acctgctgat ggcgccttgc 240
 ccggcgcaag ggctgcggat caaatgggtc accgagccta cgagctgggg agcagcggca 300
 agaagcggaa agcaaccgca gacgcccctc accatctggg cagagcagca gcagcagcac 360
 attcccggaa tgtcgccgca gcctccaacc cgaacggcgg cagctaccgg cacagctctt 420
 cacaggccat a 431

<210> 40631
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-040-Q1-K1-D2

 <400> 40631

gccccggggt cccctacgc ctctcgccg gaatccgccc ccaagcgtgc cccacgctcc 60
 cgtccgcagc agcagcagtc tccctccgag gaaggagatg acaaggagaa accaacacat 120
 ttgagatttc tagtgtctaa tacggcagca ggggtgcatca ttggcaaggg tggatcaacc 180
 attaattgatt ttcagtccca gtctgggggt cgtattcagt tatcacgtag caatgagttt 240
 ttccctggta caaatgacag aatcatcatg gtttctggac tgtttgatga agtaatgaag 300
 gccatggagc tgattcttga gaaactgttg gctgagggtg aagaattcaa cg 352

<210> 40632
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-040-Q1-K1-D5

 <400> 40632

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 gacccgagag atggacgcga ggatgttcgg gctggagacc ccccggtgg cggcgctgca 120
 tcacctgctg gacgtgcccg acggcgacaa ggcgggcggc ggcgccacgc gcacctacgt 180
 ccgcgacgcg cgcgccatgg cggccacccc ggccgacgtc aaggagctcg cgggagcgta 240
 cgcgttcgtg gtggacatgc cggngctgag cacgggcgac atcatggtgc aggtggagga 300
 cgagcgggtg ctggtgatca gcggcgagcg gcgccgggag gagcgcgagg acgccaagta 360
 cctgcgcatg gagcggcgga tgggcaagtt catgcgcaag ttcgtgctgc cggacaacgc 420
 cgacgtggac 430

<210> 40633
 <211> 230
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-040-Q1-K1-D8

 <400> 40633

gaagatttga gcaaaatgta cttcagtgac ttcaagatga ttgacatcaa tggatatgca 60
 tgctttgtga cgagaactgg ctacaccggc gaagatggtt ttgagatctc tgttccggca 120

gagaatgcag tggatcttgc agaggccatc ctatagagat cggaaggcaa ggtgcggctg 180
accggcttgg gcgcccgtga cagtcttcga ctggaggcag gcctgtgcct 230

<210> 40634
<211> 341
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-040-Q1-K1-D9

<400> 40634

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tggtgggact gcaaagagcc tggccacatg gctaacagct gccc aaatga agggatatgc 120
cagaactgtg gcaagtccgg tcacattgca agagactgca ccggtccacc attgccggca 180
ggagaagtga tgctttgcag gaactgctac aaaccagggc attttctgtga ggaatgcacc 240
tatgagaagg cctgcaatat ttgcgggttg ancggccacc ttgcccgtaa ctgcaccaat 300
gatcctgttg gcaaccaggg caatagtggg ggccattttg c 341

<210> 40635
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-E11

<400> 40635

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cgcgcgcccc gcttcgcccc gtcacttg aactgccccg cgcattctgc gacgctagcc 120
accccgcgcc gcttcgatct cgtcgtcgcc gcagacgtgg tctacgtgca ggagtccgtg 180
ccgcacctca tcgcggccat ggatgcgctc gccgacgccg agcgcggcgt ggtgctgctc 240
ggctaccaga tccggtcgcc cgaggcgac caggtgttct gggagaccgt tccggctgctc 300
ttccccggtga tcgagaaagt ggcacgggag cacctcgacc ctgagtacgc ctacgaggaa 360
tccgatgtat tcatactccg aagaagcccc cgtcagtgag gtcaggtggg gaacttttgc 420
cagcagttta ctccccgat 439

<210> 40636
 <211> 221
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-040-Q1-K1-E12

 <400> 40636

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 cagcgactga ggggccaggg tattgctctt gcagcctctt gtatgatgaa gagcaatcaa 120
 aaggaacaaa ttgggttgcgc tgtgctgtgt tacatccagc gtcgctaatt actctgttgt 180
 tattcaggct ccataacaat tgaatagata tgtgcttgct t 221

<210> 40637
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-040-Q1-K1-E2

 <400> 40637

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 tgctggaggc cgccctccg gcgaccgcca tggaactgaa ggccgggtgt gacgaggtca 120
 cgggcccact ccacatgagc atggaggact gcatgaagag gtgcaaggag atcgctgcta 180
 agcagggggc tagggaccct tacaaggata acaaacttga catcccatga actaattaat 240
 gctcctatat catctgcta tccatgcatg cattgcattg cgtatgcaca ctgtgcgtgc 300
 ctgcccacaa agttcgacaa cacaccgatc tcgacggatt tgtaatcgtg tccactcgat 360
 cgagagatcg atcgatgctt gttattatat tcggattcca cattatatat aag 413

<210> 40638
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-040-Q1-K1-B3

 <400> 40638

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 cataccccct gatgagatgg ctagcgacgc aaggaagcaa gagaacatgc agatcaagga 120

gaaggctctg ttcgactgcg agcgtggagc ggttccaaag gcgacgacgg accagttcaa 180
 gtgtgccata tgtgggcagc ggaagacgac ctactaccag ctgcatactc ggagtgtctga 240
 tgaaccgatg acgactgtcg ttacatgcgt tgaactgcaa cattcactgg aagttctgct 300
 tgagtgcac ccttggtgaa gtgtttacct agttgtgctg aacacactat cctgggtgtga 360
 tgtgtgtgct tctgtatgtg ttactggaag ttcgacaggg caggctttat ctaactaacc 420
 ttt 423

<210> 40639
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-E5

<400> 40639

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 tcgattgggc agcgcagcga agtaaactg tctgaccggg caaagatgtc gtggcaggcg 120
 tacgtggacg agcacctgat gtgcgagatc gagggccacc acctcgcggc ggccggacatc 180
 cgcggccacg acggtgccga ctgggcgcag agcacggcgt tccccgagtt caagaccgat 240
 gacatggcca acatcatgaa ggacttagac gagccctggc accttgcgcc gacaggcctg 300
 tttctctgac ctaccaagga catggtcatc caaggcgagc ctggtg 346

<210> 40640
 <211> 226
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-G6

<400> 40640

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 ttctggcagt gtcctggaat atatatttat gccgttcacc agactgggtg accatggcta 120
 cagcctacaa ctttatagat cgattgtgct tcaatcaggg atgttatattt gttttgtatc 180
 tgagacgttt taaaggtgca tgtggtctta tgggtctgtg taccct 226

<210> 40641
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-G7

<400> 40641

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aatagccgca gcatggcatc atcggccgtg ctcttggtgc tagccctcga gctagtggcg 120
gccaccgacc cacaggtagc ggaggcaaag aagaagagag cggcagagag cggcgaggcg 180
gcggatgcga agaagatcca tgacgacttc tgctcgacgc tgtgagaggt catgaagggg 240
acggacctgg tcgcgtgcaa ggagtcctgt gctctgtgca acaggccaac ctggtgctgt 300
acggcaggat ccagtgaag ggcaagtgca c 331

<210> 40642
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-H1

<400> 40642

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cctcgcggat cgatacgatg gccgtcttgt gcgacctcca caccgtcgac ggctcaagt 120
ccctcgaggc tcacctcgcc ggcaaacct atgtgtctgg tgactccatt actaaggatg 180
acattaaggt cttcgccgcg gtgccgtcga agcctggcgc tgagttttct aatgccggcc 240
gctggtacga gaccggctct ggtgctgtag cctcaagat 279

<210> 40643
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-H11

<400> 40643

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ctgttgccac tcgctgaaat gaaatactgc cgtgcaacgt tcatattccc tgaagcacac 120

ccttccccac acaagaactt cgctgacgag gttgtcttcc tgaatcactt cttcggtggc 180
 ctcaagtccg gtggcaatgc tcatgtgatt ggtgactatg cgaagcccgg gcagaagtgg 240
 cacgtctact acgccgctga gcaccctgag gagcctgtcg ttactctgga gatgtgcatg 300
 actgggcttg acaagaagaa agcttctgtc ttcttcaaga aactg 346

<210> 40644
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-H12

<400> 40644

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 ccatggttct tcaatagatc cgtcgtcgtg ggctactaca agaaccgct caaggtagag 120
 tatcccgtt gttgctttat gctaccgctg catgcagtct aggtgttcag tgaaatgtca 180
 atgcaatttt gctattgttt tgcgattgat tgctatgtgc tagcgtctgt tgtatggtgg 240
 tgagttacga ggccattgag ttccttctgt cgcggaaggg tacagtcaaa gttttgtgat 300
 tgactgctat gtgcta 316

<210> 40645
 <211> 305
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-H3

<400> 40645

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 cagcagggac cactgcacag gatgtcgtgg gagacgtacg tcgatgagca cctcatgtgc 120
 gagatcgagg gccaccacct gagctctggc ggcatagtcg gccacgacgg cgccgtttgg 180
 gcccagagca ccgcattccc acagttcaag ccagaggaga tgaccaacat cattaaggac 240
 ttcgacgagc ctgggtttct ggccccgac gggctcttcc ttgggcccac caagtacatg 300
 ggcat 305

<210> 40646
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-H4

<400> 40646

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ctgttgccac tcgctgccat taaatactgg cgtggaacgt tcatattccc tgaagcacag 120
cctttcccac acaagaactt cgctgacgag gttgccttcc tgaatcgctt cttcgggtggc 180
ctcaagtgcg gtggcaatgc tcatgtgatt ggtgactctg cgaagccctg gcagaagtgg 240
cacgtctact acgccgctta gcaccctgag gagcctgtct ttactctgga gatgtgcatg 300
acttggcttg acaagaagaa agc 323

<210> 40647
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-H7

<400> 40647

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gaggccccac tcaagtgccg ggtgtgcatc cgctttgccg ttaagtctgg cggctaccgc 120
atcgccgatg atgttatccc tgaaaatatt aaggccgaca ccacctacaa gaccaccctc 180
aacatctgat catcctctta tgaggaataa tattgtgaaa gagctcatct gatccatgtg 240
ccagcgagct aatatttaat ttttgagcta tggttattct atggcaccac accatccaag 300
aaataaagta tgttacatg 319

<210> 40648
<211> 211
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-H9

<400> 40648

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cgacgcggac atcaccctg gggttctggg actccacaac tctaatacgt ccgatgcacg 120
 taccgtaggc gacaccgggc atgacgcacg caggatgaca cagttgacca agatctgcgt 180
 ggacagcctt gacggaccac cagaaagacc t 211

<210> 40649
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-A10

<400> 40649

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 agtacaatgg atccctctgt caagaaccat gtcaaggagt tcgagaagaa cttatgctgt 120
 taagcaccca tcttgctcaa tcgccgaaa tcaccatata gaccagatca caacaattct 180
 tgacgtgcaa ggagtgggga cgaaccaatt cagttaacct tcaagggagc tcattggcat 240
 gcttcagaag attgatggcg acaattatcc aaagaccctg tgccgcatgt acatcattaa 300
 tacaggccac ggtttccggc ttctattggg cacccttaag agcttttttg acccaaagac 360
 cactgcat 368

<210> 40650
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-A11

<400> 40650

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 cggttttgca tcgtgcatgg tgagaatgaa taatcatagg gcatcgttgc gaaagcgttc 120
 gggcctgggg gtgtctttta cattaccaat tttgggcgcc ttcggcaatg gcatgacatg 180
 acagcacgaa agctgtgcat gatgcattgg catttgcggt cggcggctct gggtagcata 240
 caattcttat accctatggc gactttcttg tcgtacaact caactttac 289

<210> 40651
 <211> 277

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-040-Q1-K1-A3
 <400> 40651
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 cgcggtgtgga ggacgaggat tccctctgta gcaactgcaact gcaactgcaact gcaagttggt 120
 gtacacaagt gcatgtgtat gtgtagtagt ccggcctccg ggccgggaggg gccgacccca 180
 tccgatggcg acgattgggc atgctatatg gatgatcgat tagccacacac tgcacgtgaa 240
 tgaaggagag ctgtggccaa cgattagccc accacac 277

<210> 40652
 <211> 151
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-040-Q1-K1-A9
 <400> 40652
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 cgggtgtgga gtgacttgga ttcctctgt agcaactgcac tgcactgcac tgcaagttgt 120
 tgtacacaag tgcattgtga tgtgtagaac t 151

<210> 40653
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-040-Q1-K1-B1
 <400> 40653
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 tgctggattt ttccttacag gtgcgcctga ttctatccag ctatcgctg agcatgctgc 120
 agcaaataac aaggtgttcc tgatgaacct ctctgctccc ttcatttgtg agttcttccg 180
 tgatgccccaa gagaaggtcc tcccgtatgc tgactacatc ttcggcaacg aaactgaggg 240
 aaagatcttt gccaaagtca gaggatggga gactgagaat attgaggaga ttgctttgaa 300
 gatctctcaa cttcctttgg cttcaggcaa gcaaaagagg attgctgtga ttactcaaag 360

tgctgat

367

<210> 40654
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-G4

<400> 40654

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ggatgtcccc gtgcgcgcgc acgacaggga gtacggggcg atggcgaca tcgccttcgg 120
attcacacac caagccgtcg tcgccgccgg cggcgcata atcgatgaat tattatata 180
atatatgcat gctatctact atgatcgagc gcttctcgac cttcttgcat cgatctgcat 240
gcatattata atttatatta tattgatgc 269

<210> 40655
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E2

<400> 40655

ggaaaccaga gctcctgact gttcctctct cctcctcac gggcgggctc cgtctgttcc 60
gtccatgcac cgccccggtc gtctcccggt cagatccctc tcttgcaagg tttctttgct 120
agtggccgga gaagatgatg ggcgggttcc tctccagggt tctcctgctg gcttttggct 180
atgcctatcc tgcctatgaa tgctacaaga ccgttgaact gaacaaacca cagattgagc 240
agctcatatt ttgggggtcag tattggattt tagttgccct gttgacagtt ttggagagat 300
ttggagaatt tacaatatca tggctaccgt ttactcaga agcaaagggt gttgtctttg 360
tatatttggg gtaccctaag acaaaggga ctacgtatgt ttatggaact ttctttaagc 420
catata 426

<210> 40656
<211> 90
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E3

<400> 40656

ggccaatgat gattgcaaatt ctctttctag tgcattctac atgtacatta tataactacta 60

ttccacacgg gtacatgaca cagtttcaca 90

<210> 40657

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E4

<400> 40657

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cggcaacggt ggcttcaagc tcggcgctcg cctcgagagc cacttcagca cacccaacat 120

cccgtacatg aggagctcgc tggacacgct cgccaagctg aagctgcccc tgtggctcac 180

cgagggtggat gtcgtcaaga gccccaacca ggtcaagtac ctggagcagg tgctcaggga 240

aggcttcgcc ccccccaacg tcgacggcat cgtcatgtgg gcagcgtggc atgccagggg 300

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cgacaagctc attgccgagt ggaaga 386

<210> 40658

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E5

<400> 40658

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ggcctcctat caccgaattc ttgggtatgg caagctccat cagcccatgc acgaatgtgt 120

tctgagggct tccattgact aacgggacac cc 152

<210> 40659

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E8

<400> 40659

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cgcgaccccg gtgagcgtgg aggatgcgtg ccgcggcacg ttagagacgc acgccggcat 120
ggcctactac cactgcatgg cgtcgctggt caccgacccg cgcagcaagg acgccggcaa 180
caagaacatg cagcgctgg cggtgctggc caccaggatg gccattg 227

<210> 40660

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E9

<400> 40660

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agagttggtt tgtggcttgt cccacatgta caacgtagc aatgtcttcg gaatacagaa 120
tgggtacaag gggttctatt cgagcaatta tcttcccatg acaccaaaga gtgtgaatga 180
tatccacaaa cgaggtggta cagttcttgg aacatcacga ggtggccatg ataccaaaaa 240
gatcgttgac aacattcaag atcgtggaat taatcacgta ttcattatag gaggagatgg 300
aactcataag ggtgcatatg agatttaca ggaaattcgg aaacctggtc tacaagtagc 360
tgttgctggt attccaaga ctattgataa tgatatagct gttatagaca agtcatttgg 420
ttttgatact ggtgt 435

<210> 40661

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-F12

<400> 40661

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cttctgtgtc gtgcatggtg agaaggcaaa gtcaaaggac aacgatgcaa aagcgtccgg 120
gcccggtggtg tccttcgaca tcaccaagtt gggcgccctac ggcaatggca agacggatag 180

cacgaaggct gtgcaggagg cgtgggcatc agcgtgcggc ggcaccggga agcagacgat 240
 cctcatcccc aagggcgact tctctgctcg accactcaac ttcacaggcc catgcaaggg 300
 cgacgtgacc atccacgtga atggcaatct gctggcgacc acggacct 348

<210> 40662
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-F2

<400> 40662

cgaaacaccg caaccctccc tcgatctagc cgccatggcc ggcgcgctcc ccggttccct 60
 cttggctgtc ctctgtctca tctctcgac cgcgcccc accggcgccc tccgcttcga 120
 cctgcgttcg ggccacacca agtgcattc cgacgacatc aaggtgggcg ccatggccgt 180
 cggaagtac caagtcatgg ccccgacgg cgctgcctct tcgtcgtcgt cacagcagct 240
 tccggactct caccgcatct cgctgcgggt cacctcgccc ctacgcaaca gtctgacta 300
 cgcgagagaac ctgcactcgg gcaac 325

<210> 40663
 <211> 278
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-F3

<400> 40663

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 tcgtctgact cccccgcct tcacgcctcc ctacacaaat aaggtcccg ccttttccga 120
 cattcacagg ggggacagga aatcagcggc catggcctcg attccggcga cgaccttcgc 180
 cgtcatctta tccgtcctct tctgtgccg ggctggcacc ggcgtcgaca acgacctccc 240
 cgactacgtc atccagggcc gcgtctactg cgacacct 278

<210> 40664
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-F5

<400> 40664

cccacgcgtc cggaatatc tacaacgaga aaggcaaggg tctgctcgtc tagagaattt 60
tgcttctgca ctcgaactga ttggacaaaa gctccaaatg gatacactgc aaagtcgact 120
tgatgcagag ttcttcttag ctcatatgtg ttcagtcaag tttaatgaat ggatcgtggg 180
gctagctact ttattgcggc gtgcagaggt tatgggtggat ctctttaggc atgatttgcg 240
attgtggaaa gcatatagca ttactctac agtcacatga tgtattcaca gaatatcttg 300
a 301

<210> 40665

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-F7

<400> 40665

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tagtagatct tcgatcgttc atgcaagcta ataagtcagt aagcagcagt aggtcgaaaa 120
tggcgatgag gtcgctagcg ctactggacc tcctcagcct gctggttggt ggtgtggcgc 180
atgcggtgga gttggagatg gagttggtgc ctgctgatgc aattgcgatg actatggatc 240
atgagccgtc gcaggagtgc gcgaccccg tgagcgtgga ggatgcgtgc cgcggcgcgt 300
cggagacgca cgccggcgat ggctacgac cacttgcatt gcgtctgtgg gctgccgacc 360
cgtgcagtaa ggatgccggc aacaagaaca tgcacgcgct ggccgtgctg gccaccatga 420
tggccattga ccacgc 436

<210> 40666

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-F8

<400> 40666

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cgactccatc cccatcatct taatcacgaa ggatatttca aaagcagtag tagtttagtc 120
aaattagata tgcggttttag gattctagtt gatatgcgtc cattattttg ttcacatcga 180
atgcagcagt gtggttagcta tgtagttgca tacctatcat aactaagtct attagaagta 240
tttctaataa tatttatgat ctgtcatcaa taaaatgtat gcaacaatac gactataaaa 300
aaaaaaacta ataaaatatt aaatgagaaa taataaaaa 339

<210> 40667
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-G1

<400> 40667

aatcaacata tgcaagttgc agactgagta tgcaagatta ggcaatcgac ctccacacat 60
cagttttggt ctagcattag ttctgatcgt ggtgctttcc ttgagggttt tgaattgctt 120
ggttcaagaa aagcaaaaaa tatatttctc ctttctactt caacatctag cgatgtatct 180
gcatgtaagc tcttcgttgg tatcgaggct acatccagat acatcactag atgttgaatt 240
ataaaggaga aatatatttt tggtagtttc gtcaatccta aagaagatgg taagaattgc 300
aatgcaaatg caggatccac agataaagaa cgtgttcaat tgcttcattt gaatttatta 360
acttttgggc 370

<210> 40668
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-G11

<400> 40668

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tgatgtcccc gtgcgcgcgc acgacaggga gtacggtcgg atggcgcaca tcgccttcgg 120
attcacacac cagccgcgcg tcgcccgcgc cgccgcatga atcgattaat tattatatat 180
atatatgcat gctatctact atgatcgatc gcttctcgac cttcttgcat cgatctgcat 240
gcatattata atttatatta tattgatgcc 270

<210> 40669
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-G12

<400> 40669

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ggacacaggc ctagccaagc agcgcctaccg tatatctaca tgcgaccgtg ggacagcgtc 120
agccggaggc cggagcagct cgatcgggta gttgccgcgc gaccgtcaga gacctctgtt 180
tctttgggtt gggttcgggtg tttctctttc tatttatggt ttactaatta gttgtccgtg 240
tgttgcgacg gtacataaac accattgata aagcattagt agtaattaat tttagatcac 300
ttcatgagat gcgctctgcc gacatgagga aaaactcatt cattttttat t 351

<210> 40670
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E12

<400> 40670

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gctcgtgctg gaggccgtcc cgggcggcgc cgccatggac tgcaaggccg ggtgtgacga 120
ggtcacgggc ccaactccaca tgagcatgga ggactgcatg aagagggtgca aggagatcgc 180
tgctaagcag gggcctaggg acccttaca ggataacaaa cttgacatac catgaactaa 240
ttaatgctgc tatatcatct gcctatccat gcatgcattg cattgcgtat gcacactgag 300
cgtgcctgac cacagagttt cgtcaacaca c 331

<210> 40671
<211> 480
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C6

<400> 40671

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ctcggggagc agttctacat cagcgtcatc gtgcctgcgc ggctcgtgcg cgacgagtac 120
aacatgcccc acaacgcctt tcgctgcggc aaggctcgtg ggctgccgat gacggcatcc 180
tacgcccgcg cgcgctaaag acgacgaatg cgccgttttc acctcgacgt tctgaccatc 240
cagtctaaact aatccattcc tgagctgctc ggcgaaatat aatcatcaaa tagaacaaaag 300
acgaatgaag cctaggggaag ggagaaggca cgttgggtgt gggtagacca aatgagaacc 360
cacggatata totattgacg taatcttga gatgcctct caattaactg taatgggggtt 420
aaaaaacaat ccttgtaatg ggagggatat atacttttat cttaaccttt atttacacca 480

<210> 40672
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C7

<400> 40672

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catcgagaac ggctgcaacc ccaactacct ggccgtgctg gtgaagtatg tggcggacga 120
cggcgacatc gtgctgatgg aaattcagga caagttgtcg gctgagtgga agcccatgaa 180
gctctcttgg ggcgccatct ggaggatgga cactgccaaag gcgctcaagg gcccttctc 240
catccgccta accagcgagt ccggcaagaa ggcatcgtc aaagacgtca tccacgcgaa 300
ctggagaccc gaagccgtct acactttcaa cgttcaattc tactagactt 350

<210> 40673
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C8

<400> 40673

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ccactggatc accagaacta ccggcttctg aaccagatgc aggtgttcca ccacctcggc 120
ggcagtcagc agccgtcgtt ccaccaggac ggcagcgcg cggttttcgg tgacatcgtc 180

tcctctcgcc tgcggtcact gccaacccggc agaacgcatg ccgagctaca ttccaaccaa 240
 tttgacacct acatcagcgg cgggctggtg gatcagtcga tgctgatcgg tgacgaacac 300
 ctgctgagggc ctaacccgag tatggtcaac gtctttctgca tgcccgcgct ttectaccgt 360
 gagccggat 369

<210> 40674
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C9

<400> 40674

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 agcttggatt ggtctgactg ctggagcagt tgggtgcttg gttggtagtc ctgctgacct 120
 ggcactcatt agaatgcaag ccgattcgac cctgccagtt gcacaacgac gcaactataa 180
 gaatgctttc catgcactct accgtatcag tgctgatgag ggagtcctcg cgctttggaa 240
 ggggtgcaggt ccaactgtgg tgagagctat ggcactcaat atgggtatgc ttgcttccta 300
 tgaccagagt gtcgagctat ttacggacaa atttggcgca ggagaaattt ctactgttgt 360
 t 361

<210> 40675
 <211> 164
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D1

<400> 40675

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 ctctattggt ctcatggtga acttgaaact gaactcgatt ccccttctga atcaggaccc 120
 ggacatgctc taccatatcc tgctggtgca tatcaactat atta 164

<210> 40676
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D10

<400> 40676

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gggcgatggc agcggctgat gtggagtacc gttgcttcgt cggcgggctt gcctggggcca 120
ccagcaacga gtcgctggag aatgccttcg cctactacgg cgagatcctt gactccaagg 180
tcatcaccga ccgtagact gggacgtctc gcggctttgg ctctgttacc ttctactccg 240
agaacttcat gcttgacgct atcgagaaca tgaac 275

<210> 40677

<211> 272

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-035-Q1-K1-D2

<400> 40677

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tctagttgga atacaagact tgcttgatca gcccaatcca gctgacctg cccaaactga 120
tggttatcac ctattcatcc aggatccaac agaataaag cgacgtgttc gtctgcaggc 180
caagcaatat cctgctctgg tctgaggatg ttggcatacc agagatccat gatccatnct 240
acacatcata gaaagttcaa gtttactg ga 272

<210> 40678

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D3

<400> 40678

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cgaagcctaa gacgcttgag gggaaagccc cagctgaggc caccatcttc acaccaagg 120
ttgcacctga gaccactgcc atccacattg aggttgccgc gaaacaggca gtagttgaga 180
aggtggagga ggacaaggag gaggcactaa cagtggcggc gaaacatgag ccagcagcca 240

ccatcgagcc ttaacagatt gctggtgagg tgaccacttc ggaagtggct gtcgtcgttg 300
tcgagcctga gaacaaagag gagga 325

<210> 40679
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D4

<400> 40679

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tgcgtgcggg atcaagaacg tgaacctggc accctacagc ggcatgacgg cgtgcggcaa 120
cgtccccatc ttcaaggacg gcaagggctg cggctcatgc tacgaggtga gatgcaagga 180
aaaacctgag tgctcgggca atccagtcac ggtggacatc actgacatga actacgagcc 240
tatcgcttcc taccatttcg acttgagcgg caaggccttc ggctccctgg caaagcccgg 300
gctcaacgac aagattcgcc actgcggcat tatggacgtc gagttcaaaa aggtgcgatg 360
caagtacccc gtcgggcaga agatcgggtt ccac 394

<210> 40680
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D5

<400> 40680

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acgccggcga ttgggtcttc ctgttcggcg ccctccccag attgccccac ccaccgtcag 120
cctcgtcagg gtccctccag gacaaaccat gctccggaga cagatgcggc agagctgggg 180
caggagcaga gccatcacag aaattcttgt ctccagattc ttggtcaaag gaatgttgga 240
cacctgctag ccaatgtgca gccgcgagag ggcttagaca gataatatgg tcgacggcat 300
ggacttctag gagctctgca gcgacttcga atgcataagc agcccctacg tggagtccat 360
tatgaggcca tgtcgcgccg gacatctt 388

<210> 40681

<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D7

<400> 40681

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gacaatggcc tcaaggtact ctatcctgct tgccacaacg aactggcta tgttggtcgc 120
attcagttcg tgcaccaccc cactcacctt ccaggctggc aagggtcca agcctggcca 180
cctggttctc accctaaca ttgtcaccat ctctgacgtg tagatcaagg agcatggcgg 240
caaccatttc tcctttacac tcaaggaggg ccagctggc acttggacgc tcgacaccaa 300
ggccccgctc aagtaccccc tctgcatccg ctttgtacc a 341

<210> 40682
<211> 472
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D8

<400> 40682

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atctacaagg ttagttttcc gcatcgagaa atattatgtg atattgattg tcgagttctt 120
ttttctgttt caaaaaattt agtacttgta ttcatagtaa catttgatgc attaattgat 180
acattcttat tttcatatat aggtttttga tcatctcggc atgttaaaga agaagaaatg 240
catctagctg taaagaaaag gaaggcaa atcatcttat gcaattattt gtgtgctgtc 300
ggcggcgcg c tatggctacc ggcaaagaac tacctgatcc ccatggacgg agctggaacc 360
taatgcctgg caaacacact gattaacaca gtcattgtaa tcattgggaa cgtgcagcag 420
cagggcaccg gtgtcagact gtcagctttg acaccgtcaa gggcgccatc gt 472

<210> 40683
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-D9

<400> 40683

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gtcagggaga agcaatatga tgagaagggt taccttgact tgtatactga ttcacgcgcc 180
aaagtaccag ctgtcgaaaa tgtgatggta tacttcgcc cagtaacaa ggagaacaat 240
caaaactatc ttggctctgc acctctggaa gaaatgacca ggcaaattta ccttgctcaa 300
ggcccatctg gacctaacaa agagtatgtg ttcaaactcg aggacgcgtt acacaaatta 360
ggagttgtag accaacatgt tcaagaactg gcaaatgtc tgcgtagta ttctgacacc 420
gagttatcta agtgaaagat cacatttacc cc 452

<210> 40684

<211> 137

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E1

<400> 40684

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tcaagagctt acattgcac aacgcgagcg tgcaaacatt ccatggcaac gtcgaagacg 120
caacgtgtgg cgcaaag 137

<210> 40685

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-E11

<400> 40685

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cctcaacggt ggctcaagc tgggcgtcgg cctctagagc cacttcagca caccacaat 120
cccgtacatg aggagctcgc tggacacgct cgccaagctg aagctgacca tgtggctcac 180
cgaggtggat gtcgtcaaga gcccacaacca ggtcaagtac ctggagcagg tgctcatgga 240
aggcttcagc caccctaacg tcgacagcat cgctcatagt gcagcgtggc atgccacggg 300

ctgctacgtc atgtgcctta cggacaacat gcttcaagaa cctcccc 347

<210> 40686
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C5

<400> 40686

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caccggcggc gccttcacg acggcgcgtc atggctgcag agcaccggca cgcccaacgt 120
catgggattc accaaagggc aatgatcggg ggattgcagt atgcatgcga tgatgatacg 180
cgcgcggtgc ttcatgcatg caacatgctt ttgggtttat ccggaaactg ctagcatttt 240
tgtgcgcata tatatagctg gaagctcctg tgcacgcatg cagggtgaat aggatgacct 300
gtctatatgg gtagtacgtg gagctaacgc aagtgtgtgt acgtgtttgg caccgctccg 360
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ttggcaaaac gaataatata aaaa 444

<210> 40687
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-A9

<400> 40687

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tcgtgcgctc catcatgcgc cacgtcggcg agacgctcga ggtcgacctc gagccgctct 120
accagcggat tggctggccg ctctaccgca agtacgggtca cgccttcgag gccttcaagc 180
tcacgttgcc ggaccctgac gctatcctcg acgtactcac ctatgaggaa aaggaggtcg 240
gccagatgg ccaggaggtg gctaagggtg tgctgtgtgt caccctgag gttaaggatt 300
cactggtgaa gaacataagg aggaggatga caccgcaggc actcaagatc cgggctgata 360
tagagatgaa 370

<210> 40688

<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-B11

<400> 40688

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gccatggtac aatcacccat ggccgaggca tagtccgctg atgcttctgt ggctgactcg 180
ccagccgatg gacctagcgg tccaacatgc tgcacctgtt ccacaggggtg tcgaaatgcc 240
tatcatgcaa tgaagatgac gattattact tcaccaattg atgtctcaca cg 292

<210> 40689
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-B2

<400> 40689

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gtatctgctg aagagatttc cgcttacacc cgactcgtct acaccttgca ccagggatgg 180
gagtccgacg agac 194

<210> 40690
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-035-Q1-K1-B3

<400> 40690

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gtgatgggtgg accaactcaa agggcatcag ccttggcagc tctttcatcc gcattgaatc 120
catcgtcgca aggaaaacag tcagatgaga ggcccacaaa acccagcagc acacaggcgc 180
agtctcattc aggccaaggg tctcagagag ccgctgctgt tgcagcactt tccaatgttt 240

tgactgcaga gggatcgcac agcccccgcc acagtaggtc gtccccaaca gcagatgctg 300
 agaagactga attagctcct gcttctnctc accagttgga aacagggcct gcagaagatg 360
 tccggacaga acctgatgtc tcacatgaac aaactgctta cgaaaaac 407

<210> 40691
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-B4

<400> 40691

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 gccatggctcg tagcaccgat ggccgaggca aagtcgctcg atgccccctgt ggctgacgcg 180
 ccagccgatg gacctagcgg gccagctgct gcacctggcc cccaggggtgt ctaatgcctg 240
 tcatgcaatt aggatgacga tgatgactcc accaattgag gccacactac gttgcacggg 300
 ttaaattttg aacaagacat ggatgaaaaa tgagagcaat gtcttttaaaa ccatg 355

<210> 40692
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-B6

<400> 40692

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 tcctcgctct cgcgctcgtc ctatggtcgc cggcgctggt agctgtcgac cacgtccact 180
 ttcagtacaa tggattcctc atcgggctgc tgctgctttc gctgcacttc ctcgagcagg 240
 ggtgggatct tatcggggga gtcgtgttcg catgcttgct gtgctcgaag cacctgttcc 300
 tcgtggcagc gccggtgtac tttatgtatt tgttcaggca ttattgctgt ggccggtgtg 360
 tcgtgaaggg gctgggaagg ctcgtgctga tgggttctgg agtggctggt gttttggcgg 420
 cacatttgtg cccttcgggt attatgtca gatgcaac 458

<210> 40693
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-B9

<400> 40693

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 tttgcctact ttctgggatt tcttggtata tatgctgtag ctcaacagcc accttatgat 180
 ggcttaggcc attcaaatca ttgacccca ttgcaacttg aaagtctgct aactgaagag 240
 ccaacatcac gattttggct ggtagaattc cgaacttcat ttccagcaaa atgtgtacaa 300
 gcaagcagca ttctgctga actttctatc acgtactcca acaagaacat ctcttttggg 360
 acaattgacc ttgggcattt cccaaatgct gcagcaaagt ttgggatatt catgtgggat 420
 catcttctca cttacatatt ggttga 446

<210> 40694
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C12

<400> 40694

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 agcgccagat cccgcccag gagcactggg cttcgccta ctccatgctc cagaagggtg 180
 cccgtagctt cgctctcgtc atccagcagc tcggaccga actccgcaat gccgtgtgca 240
 tcttctacct cgtgctccgt gccctcgaca ccgttgaaga cgacactagc atcccgaccg 300
 aggtgaagggt gccatcctt caggaattct accggcacat ctacaaccgc gactggcatt 360
 attcgtgtgg aacaaatcac 380

<210> 40695
 <211> 180

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-035-Q1-K1-A6

 <400> 40695

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 agggcatccg agcgaacaag ccaagcgacc ccgtgctcaa tgcaatatcg tcgtcgacgt 120
 accaccacca ccttatgata gagatggaga tgaagaggat cctcttcgcc gttctcgtcg 180

<210> 40696
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-034-Q1-K1-H1

 <400> 40696

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 tctatatattt ccaggatttc atatggagaa agtcagatgt tggataaggc attttatgag 180
 gaggaagtca agaggctatg cttgtccttt gagcagcagt tccactacgc tgttttcttc 240
 gcttacatca ggctccgcga gcatgacatc aggaacctga tgtggatctc tgaatgtgtc 300
 gctcagaacc agaagtcccg ggtccatgac agtgctgtct tcatattctg agaacccccg 360
 ccactatata tgtatgtaca aaatgcctgc tttgatgatg gcacaatcgc tcgacaatt 419

<210> 40697
 <211> 242
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-034-Q1-K1-H10

 <400> 40697

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 gaaagctggt aaagaggaac atgtagtctt ctggcgactt ggatatctat ggtgggcata 120
 gaatcaatgt ggaaccaata gggacgctag gtgaagacag gtcatacataa ataagatcaa 180
 ggggtgacag tgatattgac aaccgacaag ctcttcaagc ataatagatg gatgttgtgt 240

ca

242

<210> 40698
<211> 78
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-H2

<400> 40698

gatgaaccaa cagtctacaa taaaagccag tcacatgcaa ataaaaccga tagacctcat 60

ccctgaggca agcctacc 78

<210> 40699
<211> 328
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-034-Q1-K1-H3

<400> 40699

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attgcgatga ctatggatca tgagccgccg catgagtgcg cgaccctgt tagcgtggag 180

gaggcgtgcc gcggcgcgtc tgagactcac gccggcgtgg cctacgacca ctgcatggcg 240

tcgctgggcg cctacctttt cantnnntgt gccggctaca agaacatgca cgccctggcg 300

gtgctggcca ccatggttgg cattgacc 328

<210> 40700
<211> 371
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-034-Q1-K1-H4

<400> 40700

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cngggggcg cgaggaggag atatggatcg gtcgtatctc cccgtggcg cggcagccgt 120

cgccctggtc ctctgtgtgt gctccggcct ctgccgcggc gagcgggtcg gggcgaggga 180
 gtgcgaggac ctgggggttca ccggcctcgc tctctgtctc gactgcaacg cgctctccga 240
 ggtcgtcaag gaccagagt tgtttntnn ntttcataaa tgttgaccg aggattcaga 300
 tgattctatc agcaagctca cttttctgg tgcaattatt gaggtgtgca tgaggaaact 360
 ggtattttat c 371

<210> 40701
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-H6

<400> 40701

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 tctgcaaggg atccaagcct ggccacctga tcttaccac caaagttgcc accatatacg 180
 acgtggacat caaagagcac ggtggcgatg actgctcctt tacgctcaag gagggcccga 240
 ctggcacctg tgctttcttt accattttcc cgctcaagta cccctttgc atccgctttg 300
 ctg 303

<210> 40702
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-034-Q1-K1-H8

<400> 40702

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 gccagccgcc gcaggagtac ggttacggca cgttccaggg cctcgacat cctcccgtcg 180
 ggttcccga gctgccccg cctccgggc tctgcggcg cggcgggggc ggcggctatc 240
 acaaccagaa gcaaccattt tcnccnnng agacttacta cgcccagggg taccaggccg 300

taccaggcta tggctctgtt gctgaaggaa gacctgtgag aatgaggcgt cttccatgtt 360
 gtggcctcgg cttangctgg tgtctgttca taactggggtt tttcttggct ggcatttcat 420
 gggtcattgg agctttcggg cttta 444

<210> 40703
 <211> 180
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-H9

<400> 40703

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 gctcgatctt aaaccggggc agaaagtacg tgatgtcgga tgtggaattg taggcggcga 120
 ctgttacatg gctgcaaact atgatgggca agtgcttggg attgatcttt tgggtaacat 180

<210> 40704
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-A1

<400> 40704

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 cagtgaacat attgagcgcc atattttctc ttttgagaaa accaagccag aattctgatc 180
 ctccatttat gcataaaaag tattttctgaa ttttatgtag tacttatttt gtattcctcc 240
 ttttgtgttt tttgttcttg taactatgtt gcacactttg gaggatatga tgaccctttc 300
 cccagatgat caacaatgaa aatactgagc gctataattt ctcatctgag aaaaccaagc 360
 cagaat 366

<210> 40705
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-A10

<400> 40705

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tggcggcggc ggcggcggcg atggcggacg ggcggaggaga aggaggacct cctgcggcgt 180
cggcggcgcgt caaggaccag gggaatgagc agttcaaggc ggggagctac ctcaaggctg 240
ccgcgtctta cagcaagcc atcaagctcg accccgacaa cgccaccctc tacagcaacc 300
gagctgcagc attcctgcag ttggttaagc ttagcaaagc gcttgctgat gcagagacaa 360
cagtcaggct gaagccacaa tgggag 386

<210> 40706

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-A12

<400> 40706

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ttgtctgcaa gatcgccgac gaaaccggca tggagtgggt ctccatcatc accacccccca 120
acccaatctt tagccacttg gcgggcccga catcgggtgtg gaaggcaata tctccggcgg 180
tcttgagtc gtcgttcaac accacgccgg agatggagaa gctgttccgt agcaagaggc 240
ttgactcgga gatcttcttt gcgccttcaa actgattcat tcgccgttg aaaatgggtcc 300
atccatctcg agtaaacttg gtgtcctggg tgtgttcttt agcagcttca gtttaaaata 360
atcagggtat gtcttcatca tcaggttttt agatcggttc atggtaatat aaacttgaga 420
tggtgcacat gtttcttaat t 441

<210> 40707

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-A3

<400> 40707

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ccacatgagc atgtaccagt gcaagaacat gctgatcaag gacgtgaccg tgacggcgcc 120
 cggggacagc cccaacacgg atggcatcca catggggcagc tcatccggga tcaccatcac 180
 caacaccgtc attggcgctc gcgacgactg catctgcac gccctggga cctccaaggt 240
 gaacatcact ggcgtgacct gcggccccgg ccacggcacc agcatcggca gcctagggcg 300
 ggacaagga 309

<210> 40708
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-A4

<400> 40708

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 acccccatgg cggcggctgg cggcggcgca ggagggaagg tacccttcaa gatcatcctc 120
 acctccgacc ccaagctccc tttcaaagtg ttcagcgtgc ccgaggcggc gccctttacc 180
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 aaccaacgat gggatttggc atcaaccccc agcaaaagtg catgcaacgg tgtttctgaa 300
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<210> 40709
 <211> 257
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-D9

<400> 40709

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 cccgagggtg ttgatgacct aaatttattt tatgtatttt ataaagcgtt tttattcgat 180
 tcatgtgttg tatattttgt tgttgtaata tgaacacatg tgattccgat ttatggatat 240

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257

<210> 40710
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-E11

<400> 40710

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cccgtctgca ggattgccag gttcctcaag gcgggcaagt acgctgagcg cgtcggcgcc 180
ggcgccccctc tgtaccttgc ctgcgtcctc gagtaacctc cggctgatgt tcttgaactt 240
gccgggaacg ccgtgagggg caacaacgag acctcgattg tgccgtgccg cattcagctt 300
gctttgcgca acgacgagga gctgaccaa ctgttggggg gggccacca 349

<210> 40711
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-E12

<400> 40711

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gagcacgggg acatcaaag gcggcagcgg cggagatcgg tggtttcgcg gcggcgagag 180
tggcggtggc gacgctcagg ccggtgcgc acccagcccc ggcggcggcg gtggcaccgc 240
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cggatctcgc cggcacgacc aacggcgctg tgcattgctg gatgaatagt aaggctacaa 360
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ccatagggcc ccttaaccaa cact 444

<210> 40712
<211> 448
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-E9

<400> 40712

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cgggtacggc gaccggtacc cgcagcggat ccaccacccg gcctcgtcgt tgccctcgat 180
cagggaccat cctcagccga tggcgtgcaa ggatggcagc cgtacttca actcatccgg 240
tgcgaaatcct aaccgcgtgg tcggctcggg ggctggcgagg ccggggggagg acgacgctta 300
cgaggatgac cgtgcggatt tcaagaagtc tgagcccact acctacatca acgctccctt 360
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<210> 40713

<211> 149

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-F11

<400> 40713

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gcacgagcct acgttgacga tgatggcgat atcattttta gtaggcgggtg cctgggtgtgc 120
tactacgaag ggccggcgac gctagaaca 149

<210> 40714

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-F12

<400> 40714

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caccactgtg ccgggccact ctccaaggac atggaaacga gcagctgtac atgacctccg 180

ttggttcgag atagctgctc catgattgga tcggctcttg ggggtatagc aggagcgtgt 240
 tatggttgca accattttat gcctgttggt cgacgtcaca taaagggccc aatgggggatg 300
 catttttttg ttggtgcacc agcatttatt gtgtttctct ctgcatgtgc tggattagca 360
 ggtggtacaa taccagccac cgtacagttg gtttcatcat cctgtcatgc 410

<210> 40715
 <211> 441
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-034-Q1-K1-F2

<400> 40715

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 caaaaaatcg caggttggtg aagcgaatgt acctgaacat gttttttgtg acgaacaaca 180
 aaaaatttta aacgaacagg attcactgtc aaatatgaac aaccatattg gaatagttga 240
 gcatttaaag caaaataccg aatccaaggg tnttatggta ctgcgtttct tatatagttc 300
 ttcattccat gagggctctca catttacttt tttttttaa accaggatga aagacctgca 360
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<210> 40716
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-034-Q1-K1-G3

<400> 40716

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 agtcagcaag ccgaccaaca catgttgcca atgccaaaaa gtacaggggc tttattacat 180
 atgagcgaga gagtatttca tacagagatc caaaagagcg tgtagagat tggaaggaag 240

ttgcaatcga atctacacct ggnccactat taaatacaca atctgctcgt tgcattggact 300
 gtggcactcc tttctgtcat caggaaagct cacgtgctgg ttgtcctctt ggaaataaga 360
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 t 421

<210> 40717
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-034-Q1-K1-D11
 <400> 40717

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 tatttgtggc cgaaggcgct agaagtacct ataattggacc cctcaaaaagc attaaaaaag 180
 cctgttggaa ttctacttgt gaaggctgta agagcccaaa atttgcgaaa gaaggatctg 240
 ctgggtaaat cagaccata tgtgaaactt aaaatgtcag atgataaact tccatccaag 300
 aagactactt gtaagcgcag caatctcaat ccagagtggg atgaagaatt taagtttggg 360
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 aaacatgaa 429

<210> 40718
 <211> 449
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-034-Q1-K1-A6
 <400> 40718

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 ttggagaaac tttcacagag ctacctcta tttaccctct ggttgatttg cctataaata 180
 ctagggaag cgctgcagat tttggtgggt cagttcctaa acctgggctt gaagtcaact 240
 tagtcgacnc tgttccttgn cnaatatcat ttgagagggg caaagaacgg cacttctgct 300

ttttagccat agctcatgga acttctggtt ggattcttct tctagaagaa ttacctctaa 360
aacgggaacg aggaattgtc cgtgtcatgg cacctttggc aggatctgat ccaagaatag 420
atacaaagca tgggaagtgg ttacatcta 449

<210> 40719
<211> 240
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-034-Q1-K1-A7
<400> 40719

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gggaaggaat gcagaggtcg cggaaggccc ttctgcggag gacggcggcg gcgcaggtgc 120
atagcgcatt ggcgagggt gctggtaacg ggaggaagag gcgtctgtac ggcttttccg 180
tctccttcgt cgtcaccttg tgggtcgccg ggctcctgtt ccattccttg ttcggccacg 240

<210> 40720
<211> 426
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-034-Q1-K1-A8
<400> 40720

gaaccttggc cggaatcac taacattcca ttgctctttt aatcctgcca tagacaagga 60
gcatgccaag tgcattggcg ggatactggc tcactcacct tgtctgaacc ggatatecct 120
tgctgggctc acagagctac ctgactcggc tttgagcacg ctgagagtgt ctggatcatc 180
tctaaaatcc ttttcattgt actgctggtc tggcataaca gatgatggtc tagcacacgt 240
ggctattgcy tgcccgaaca nnnnagaggt tgaacttcaa agctgcttta aactacaga 300
tgctgccttg gaaagtcttt caaaaggctg ccgtggtttg aagagtctaa accttggttc 360
ttgcatgggc attacagacc aaggggtttc tgccatcttc agcaattgtc caaacatctg 420
cacgct 426

<210> 40721
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-A9

<400> 40721

cccacgcgtc cgcggaacgc tgggcgacat gatggcgtgc acaaacaatg cgatgagagc 60
cttgttcttc ctggctctct tctgcatcgt gcatggtgag aaggaagagt caaagggcat 120
ctatgcgaaa gcgtccgggc ctggtgggtc cttcgacatc accaagttgg gcgcctccgg 180
caatggcaag acagacagca cgaaggcttg gcaggaggca tgggcattgt cttgcggcgg 240
cactgggaag cagacaatcc tcatacccaa gggtgacttc cttg 284

<210> 40722
<211> 295
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-034-Q1-K1-B1

<400> 40722

cccacgcgtc cgagacaatg caatgagagc cttgttcttc ttagcgctct tctgtgtcgg 60
gcatggtgag aaggcaaagt gaaaggacaa cgatgcaaaa gcgtccgggc ccggtgggtc 120
cttcgacatc accaagttgg gcgcctccgg caatggcaag acggatagca cgaangctgt 180
gcaggaggcg tgggcatcag cgtgcgggcg caccgggaag cagacgatcc tcatacccaa 240
gggcgacttc ctctgcggac cactcaactt cacaggccca tgcaaggcg acgtg 295

<210> 40723
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-B3

<400> 40723

cttgaaaga gggggaaca aaacacgggt gctcattctt gcactaccac accatgtaag 60
ggcgtggatt catttttggc cgcggggaga ccctcatcaa tgatctatac tagctccata 120

cgaatggtga taatccacaa atagcatttg tattatgaag aatgtatgtg accactgacc 180
 tgtgagacaa atactgatat gtatttaaac acgggtgtga tgcccaaagt cttggagaaa 240
 caccctacaa attcaaaagt gcactagaag gaagaaaaaa cactgagagc tcaagcaaca 300
 accaatgata actacttgcc cccacttgat atatttta 338

<210> 40724
 <211> 316
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-034-Q1-K1-B4

<400> 40724

ctgaccatca acggacacag gaccatcgctc tggcaaggat ccctggtggt gatcaagagc 60
 gagggccaac attcttacgg gggcgagatc ctcccgaatt gcttggtgct ggattttgtg 120
 acgaacgtcc acatccgctg gatcacactt ctcaacaaaa agttcttgca cctaaacatc 180
 ttcgagtga agaacatcct tatcgacaaa atgactgtct tgggtcccgt cgacaggccc 240
 aacacagact gcatgcacat cnnncnncnc agcaacgtga ccatcatgaa ctccaccatc 300
 ggcatgcgct actact 316

<210> 40725
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-034-Q1-K1-B7

<400> 40725

gcaatcaccg gggcaagcga accctcgatt tgcgtccccg ctctctgcta gcgcccctgg 60
 aagaggagcg aagcgatgtc tatgtcgaag acgggtcagg ccgcggagaa ggatgagcag 120
 cagcagtccc gagggatagc actgatgcag ggcatctgcg ccgtggtgta ccgcaaggcc 180
 gataacacgc cctgccccat caagcagggt ctctacttgg gatctggttg agcagcattc 240
 aataaggagc ctctcaanan ttgaaacatc acccatatct tgatcgttgc aaagtcactg 300
 gatccagtat ttccagctga atttaattac aagaagatcg aagtacttga tatcccagac 360

actgatctgt taaagcattc tgatgaatgc tttggtttca tagatgaagc tataagctct 420
 ggaggcaatg ttttgggtcca ttgctttgct gggcgg 456

<210> 40726
 <211> 434
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-034-Q1-K1-B8

<400> 40726

gcacgagcct gcttgcctacc tcaccttgaa cgcgcagccg ccgcctgcgc cacgcgtgaa 60
 gaagcagccg cctgcgctcc gcccgaaatca ccgcccgag ctccgcgact tcggcggcgt 120
 cacgcagcct caggcaacac gggagcgctt cagcgtcgtc gtcgtcgctc ttgcggccgt 180
 tctacaactt catgccgtg ccggttggtc cagttcgctg tgagaggccc ctgagcgaga 240
 tcaaggccca cggctccnac agcntcgacc tggaactgaa gctgtaaggg agcgcatata 300
 actggaaccc tcaactccctc tgttgtatgt tccttctcgc agcgggaaca gcgctcgctc 360
 tcgtccagaa gaagactgtg gcggcgtggt tggttttgta acctgaaaca ccgccatgtg 420
 catcagaatc tgcg 434

<210> 40727
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-C10

<400> 40727

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 aagaattagc tgtcacatgg gttcataaat gttccaggg aatattgact aatgaaacaa 120
 ggtgtctgag atgtgaaact gtgactgata gagatgaaac attgtttgac ctgagcctgg 180
 acatcgatca gaatagttca ctcaccagct tgcttaagaa cttcagctca acagagactt 240
 tgaatgcaga tgacaagttc ttctgtgaca aatgctgcag tttgcatgaa gcacgaaaaa 300
 ggatgaaaat aaaaaaacca ccaaacattc tagtaattca tctcaagcgg atcagtggta 360
 ttgagcagct ttagcgctac aaatagctat tataccgagt ggttttccca ctggagctta 420

accttgtaat acaggtgggtt attc

444

<210> 40728

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-C11

<400> 40728

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cgccggcagt tgccgcggag accagcgacg acgccatcca ggaggagtct ccagccacgg 120
cccccttctc agacggaaag cccggatcag gggcgccggc ggccccggcg cctgaggtgg 180
aggtgcagct gttccggctc gggcgctccg tgggcgtggt ccggtcggag ctgggcgggt 240
atacgcagga ccagctggag gtgggcgaca tcttgagca gcacggcctc aagtccgtct 300
tcgccttcga ccctgccggc cgcaaacggg gcgtcgccat ccggttcaac cctcgcaacg 360
gccgttcgct gctgctgtac gcccctgggt ccaccatctt tctagaccgg gagcccaaag 420
attcttt 427

<210> 40729

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-034-Q1-K1-C2

<400> 40729

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gagagcgacc cgccaccgtc acgcttgcc gcaagccgag aagagtgcg ggccgggaga 120
ccggacgata attgatccgt agcagattcg ctaatggcgg agacggcgga catggagcgg 180
atcttcaagc ggttcgacac caacggcgac ggtaagatct cgctgtcgga gctgacggag 240
gcgctacggg cgctggggtc caccncnacc gacgaggtgc agcgcatgat gggcgagatc 300
gacaccgacg gcgacggctg catcgacttc aacgagttca tcaccttctg caacgccaac 360
ccgggggtca tgaaggacgt cgcaaaggct ttctgatcca ttacatcttc gtccatacga 420

ttcaatcgat gatgaacctg cttatatata cacacac

457

<210> 40730

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-C8

<400> 40730

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atgttactgc tgacacattg gaaaaggaca cggaatgtg gcagcaacga gtagaaaaat 120
attggagttt gttgggcccc aaggtaaaac cagacactat tagaaacatc atggacatga 180
aagcaaattt tgggtcattt gctgctgcac tcaaggaaaa agacgtatgg ttgatgaatg 240
ttgtgccaca tgatgggcct atccccctca acataatcta ttatagatgg ctgataggca 300
gcaatcatga ctggtgtgaa gccttctcga cctatcctcg aacatatgat cttctccacg 360
catgggcagt cttctccgac ctcgataaaa gaggctgcag tgctgaaaac ctgctcctcg 420
aatgga 427

<210> 40731

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-033-Q1-K1-H1

<400> 40731

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ccgatgtcaa acatgtcagc taatccttca cagcttaciaa ttttctatgg cggatcagta 120
tgtgtgtatg actcagtgcc accggaaaag gctcaagcaa tcatgcttat agctgcagct 180
gcagcggcag cggcagctac caaaagcagt gctgccccta ctgttaaacc tncaatgggtg 240
gcctgcagcc ctggtggccc aacaagtggc ggttcttccg ggcttacacc ggcttcatta 300
ctggagaaca cttttggagc aactgggcca ccttaaggtg gtgcttgacc taacttgatt 360
tgccaacttt aagctgatct tcccattggc aggaaggac 399

<210> 40732
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H10

<400> 40732

gccgcgagat cgagaatgtc catctctatg cggtctcgca tccctgctcc tgccgtcacc 60
gccgccgcgc cgacgcggct gaggggtgca gcggcagcgg cggggaaccg cggctctctc 120
tacgtcgccg gcgccgtcgt acgggcggag acgggcgcgc tcaggggatg cgcttggtg 180
ccaccgaagc cgctgggagc gggccagccg taccggagca ggggggccgt cgacgcgtgt 240
cactcgtcgg cgcacctcag cgcgcgcacc atccagtgga tctccgacgg agccagcgca 300
gtgctattag ttgctaaagg cactgccata cacaaatctt tccttggtgcc attgtttgct 360
cttcaggcac cttgcagcat aatctcatgg atcaaggggtg actatggtca gtggactgct 420
tttcttgctt tcgtggtgcg tctattc 447

<210> 40733
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H11

<400> 40733

tgacggtcgt ctgccgatc gcgccggacc tcctggcggc gttcgagcgc aagttcccgg 60
gcgttcacgt cgaggatgcg gaggggctca cgtagcacat gtgcatcacg ctgacgcacg 120
ctagcggcgg acagctagga cgttgcagtc ggctaatagca agctgtcaat aacaagtcgg 180
tcgggttcat tctgaccaac ctggacgcga acttcttgga ccccgacacg gggctggacg 240
ctgcccata acactcctt 259

<210> 40734
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-033-Q1-K1-H12

<400> 40734

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tgccaagata aaggtgatgg agtcgtcacg caggttccag cgggtcgtca tcctgcttct 120

cctgctcatt gtgtccaccg atatggcaca tgcaatgaaa tgcgagaagt acagtgagcg 180

attcgttggg gcatgcatga tgcgagacaa ctgcgccaat gtgtgcccg gtgagggctt 240

cttgcccggc aggtgcagca ccttccgccg acgcttcac tgcactaagc agtgctaaac 300

aagatcgctc gatcgctcgc catgcatcga caacctattc ttaataacgt tcattatctc 360

ngtcttattt atgacgaatg tcatgtatgt tctgggtgact gtcatgtata ttctgatgac 420

tgtcatgtat cttgggtcatg tatgctcaaa g 451

<210> 40735

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H3

<400> 40735

ggaccttcgg cgcccgttca ggatccacat cttcccgagc gagttcttgg ttgacctctt 60

cctcttcgga ccacctccaa ggctcttggg gtagcttgcc actctcacca atcaagtttt 120

catgtctgat ctgcacattc acatcccaac tgccttcgat cccttcgctg aggccaatgc 180

tggggactct ggtgcggcag caggggtcaaa ggactacgta cacgtgcgca tccagcagcg 240

taatggtcgc aag 253

<210> 40736

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H5

<400> 40736

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gaaacacgcc gcgaagctcc cgtaccgcgg tgcacgcagc tcacagcacc gactctccca 180

cgctatcccg aagacgccga cgcgtaagat cacgatecgt cacgtcttgg cgccggaagt 240
tatcaaaaca agagctccag actttcgtaa gggcggttcag acgcttaccg gaatgccatc 300
gttccaaaag g 311

<210> 40737
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H6

<400> 40737

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tccttgtttt ctgtaggcgc attaccacat ccatgggtgc tgcaatgggtg ttactggcaa 120
gtaagacatt cttggaccct gtgggtccac tacacaaata tggtgatggc tccatatcaa 180
atatactgac cactacctgc cattatgagg ctctcacgta tgtaagcttg cctgttcaaa 240
cactggccaa atgcgccaaa agaatccctg tcttaacctg ggccacaata ttattgaaaa 300
aaaattttgt tgaaaacaat aactcttttc ctgccgccgt aattatgctt tcgcaatggt 360
taatttata 369

<210> 40738
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H8

<400> 40738

cttctccac ttgccttcga gttcgtgatt cgtgatttcg ccgccggaaa gccgagggag 60
agggagcgat atgggggtgcg tcggagacac gatggagtcg atccgctcca tgcagatccg 120
gcaagtgttc atgcagatca tgagcctcgg tatgattgtt acctatgcat taatcatatg 180
gaagggcttg atagatttca cggggagcga gtcaccactt gtagtggctg ctctaattag 240
catggagcct gcatttaaaa ggggtgaaat cctgtttttg catatgagca aagatcctat 300
tcgcacagga gaaat 315

<210> 40739

<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H9

<400> 40739

taccaattcc caattcgacg gacgactcac ggcgcctatc cttcacgact atcaccaaac 60

tc 62

<210> 40740
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-A1

<400> 40740

cggacgcgtg ggtccagaca aatctcacct gtcttgatat attgaagaat gcatggagcg 60

ctatatggac ccttcaggct gttttagag ccataattgc tctgatggcc caccctgaac 120

cagacagccc acttaactgt gattcaggca atctcctgcg gtccggtgat atcagaggct 180

atcaatcaat ggcccgcgtg tatacaaggc tggcggccat gccaaagaaa ggtagccgt 240

agaacatgtg ccaggccaag agcctattgt ccatgcatgg ctacatgttg tcagggtctgc 300

cttgtgtgtg ctgtatgaac tttgtggttc ttgattcatg aaataactaac cgttcgtgtg 360

ttgcgtgtgt gtctggggta atgagaggac actcgggttc tc 402

<210> 40741
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-A12

<400> 40741

cggacgcgtg ggcggacgcg tggggcctgc cgctcgccgc cgcggacgtg gccgggcgct 60

gccggagcgg caacagcagc agcaccacca ccaccaccac cgtcgactcc ttcggggcgg 120

acgtgcaggc gccgcccgtg caggccatgc cgctcccacc gtccttctgc gccagcggcg 180

ccgtacgctt ccctttcagc agctaccccg tgacgcaccc gtattacttc ttcgggcagg 240

ccgcaacagg gtgccatatt ctgaagctgc caccgacgac ggtgactgtg gctcagagcg 300
 actcagactc ctcgctcggtc gaggatctgt cgccgtcgcc gtcgccgtcg cggcggggcga 360
 cgtgtcagcg acgagatccg gcacgt 386

<210> 40742
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-034-Q1-K1-A2
 <400> 40742

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 ggctcttcgg cgccaggagc gggctggccg caggaccaga tcatgcagat caccgtcgcc 120
 ttcaaccact tcggcagggg cctgggtgcag cggatgccaa ggtgccgtcg gggcttcttc 180
 cacgttgtca acaacgacta caccgactgg ctcatgtacg ccattggcgg cggggacgcg 240
 ccaaccatca tcagccaggc cgaccgctac atagcaccac caaacatcgc cgccaaaggc 300
 gtcaccaagc ctttccccga aaaaaggggg tggaagaact ggggtgtgga cacggaggac 360
 gacctgttca tgaacggcgc catcttcaat ccgctcggcg gcgcccccaa gcaggtcgac 420
 accaacgagt gggtaaaggc c 441

<210> 40743
 <211> 343
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-034-Q1-K1-A3
 <400> 40743

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 gggcgctctc ttctgtgggt gcgtagcact atctattgta agtgccctcg gacgtttgcc 120
 agcacccttt cttctagaac taattacagc tactaacatc aaaaaacatc ttcaatgaca 180
 acctcaactg catgctgcat gcccaaattg tctcttttga ttacacacat actggtgcta 240
 ttataatcaa ggactctaata gaacaangnn cncatatcc aaatatacct tacaatctaa 300

gtcatatgt catttcaatc ctacaaaatc ttgggaccat tat

343

<210> 40744

<211> 378

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-034-Q1-K1-A5

<400> 40744

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ttatactgaa cagggggcgtg cctgtggttc aagccaatga aactaacttc tttgccgaag 120

aatgggctga gtctgactac tactacgacg acgacggcgg catggactat tctgaaaact 180

cattgccttc ggatttcgtg tctttggtcg atgtatggta caaaggccat gcgctctact 240

cgaaggctcan atgggggaat tcccaactca gacagtgcc aatggatggtt ctacaactac 300

ccgttccgga tcgacctgtc tcaacactcg gctgaaaaca acgagaacaa caacggagat 360

gtattcctat ccactgtc 378

<210> 40745

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G8

<400> 40745

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caagagaatg cctgtgagca ggatcgccgt gggcgctccg ggcgagctgt cccacccccga 120

caccgccaag gccgccgggg ccgagttcat ctccatgtc atcttcgtct tcgccggatc 180

aggatcgtgc atggccttca gtaagctcac ggacggtggc gccgtcactc ctgccggcct 240

catcgccgcg tctctggcgc acgccctagc cctcttcgtg gccggctccg ggggtgccaa 300

catctccggc gggcacgtga accctgccgt gaccttcgt gcctttgggg gcggcaacat 360

caagccttct aaggcccttg tctactgggt ggcccaggtc ctgggcttcg 410

<210> 40746

<211> 305

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F10

<400> 40746

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ctttctttctc tgggtttcaat atttggagct tttgtttctgc gttggacgat gatgatttgc 120
tcatatatac catcaaactc tgaacaatca tacgctatgt tgattgcaca aagcttccgt 180
gagtctgatg cgatcttctg cctctaatacc cgtttttgtt tattegtctt cttccatttt 240
tcgtttctttt gttttctgaa ttaatttatt cccgatgcaa taaattagag tctctgatgc 300
gcttc 305

<210> 40747
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F12

<400> 40747

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tggcgaaggt cggcttttgg aagggtacg cgtcatgtcc gttttgtttc tgctcctctg 120
tgggaacatc ccatccatga ctgctgccc ttgcattgc tctgcgattc catgcagtac 180
atcgatcctt ctctaataat tcaaaggctc tataaaga 218

<210> 40748
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F2

<400> 40748

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gccgttccgc ctttgatgaa gctagttgtt gtttctactg cctgaggtga acaaacctta 120
tacgacacac tacaggacgc ctacaccatg agacaatact acaagatgtg tgtgaacgga 180
ctggacatat agtcagacag ccagaaggcg aagtacttcc acataggcac gcatgtcttg 240

aacatcagga accacaaggg atcccagatg accaagctca tgcacagtaa tgaccgcatc 300
cacgacgaca ataatgcgcg cacgtattat caccgctatt acgtgcacct gcaggaggac 360
gaagcaca 368

<210> 40749
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F3

<400> 40749

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tgcgacagcg ctgaggctga gggacacggt atatgtgagc ttcacagac agcgacccgc 120
caccgccaca cttggacgga agccgagaag agtgtctggc ccggagaccg gacgataatt 180
gattcgtagc acattcgggt atggtggaca caggtgacat ggagcggatc ttcaagtcgg 240
tcgacaccaa 250

<210> 40750
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F4

<400> 40750

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ggatgagcaa ggtgatcact gccctggctc ccagcagcat gaagatcaag gtggacgctc 180
ctccagagag gaagtacaga gtctggatcg gaggatccat tctggcatcc gtaaggacct 240
tgcagcagat gtggatcggc acatccgagt acgacgagtc cgggccatgc atcgtaacaca 300
ggaaatgctt ttaattatct gggccaata catgcataac gtggcggaag ccgtaccggc 360
gc 362

<210> 40751
<211> 414

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F5

<400> 40751

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gtgaccgtga cggcgcccgg ggacagcccc aacacggatg gcatccacat gggcgactca 180
tccgggatca ccatcaccaa caccgtcatt ggcgtcggcg acgactgcat ctccatcggc 240
cctgggacct ccaaggtgaa catcactggc gtgacctgcg gccccggcca cggcatcagc 300
atcggcagcc tagggcggtg caaggacgag aaggacgtca cggacatcaa cgtcaaggat 360
tgcactctta agaagacaat gttcggcgtc cgcacatcaagg cgtacgagga cgcc 414

<210> 40752
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F6

<400> 40752

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agaatgggttg gacctgcgaa ctctatgatc cccactggat atccacaagt ttattttgcc 120
catccaagta cccatatccc tcaaggtcct ccaagacaag gttttgtgta tccacccatg 180
ggccttagtc atgaatggag accaagtatg ttccccccag caccaaactt ccagcaaata 240
cattcaccgg tgatgccaaa ttcgccaagg cattacagaa gcaaccgagg aaggatgggt 300
gggaatatga tgctcttccc tcatgcagtt catacaatga actatatgac acattcacag 360
ccagctaaag aattcatgtc ttgacctga cagcgattca atcatccgaa gtactttctca 420
aatg 424

<210> 40753
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F7

<400> 40753

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cggaagagag taatattagc catggatgct gcatttggca tggagtatctt gcatgggaag 120
aatatagtcc attttgacct gaaatgtgag aatctactgg tgaacatgag ggatccgcag 180
cgaccaatctt gcaagatcgg tgatcttgga ctgtcaaagg ttaaacagca taccttggtg 240
tctggtggtg ttag 254

<210> 40754

<211> 51

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F9

<400> 40754

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<210> 40755

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G10

<400> 40755

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agaagctttt aaggggcttg gcaacccttt gagaattatt gaaggggttg gggcttcctc 120
cggcccaaaa tt 132

<210> 40756

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G12

<400> 40756

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tgagcttgca atcaaacatg caggactgtc tgagagacta gctcttgac aaccaaaggg 120

tgccccgtctt tatggacctt cgggtcacagg atcgacattg ttggcacgtg cgggttgctca 180
 tgacactgac tgcaccttaa tcagggtgtc tgcttctgag ttggttcat 229

<210> 40757
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G3

<400> 40757

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 gcatttcgat ccacatcggc caggccggta tccaggctcg aaacgcgtgc tgggagctgt 180
 actgccttga gcatggcatt caggctgacg gtcagatgcc cgggtgacaag accattgggg 240
 gaagtgatga tgctttcaac aacttcttca atgagactgg tgcttggaag gacgttcccc 300
 gggctggttt tgggtggcct ggacccaatg gcaatcatta agggagaacc ggcaccttac 360
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 gccgtgggca c 431

<210> 40758
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G4

<400> 40758

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 caggagcgag atggagatga agaggatcct ctctgccgtc ctgctcgtca tcgccgcctc 180
 ggccaccgca gtgctggcct ccaccgaggc cgccgccgcg ggcgccccaa ctgcctccga 240
 gtcgtccgcc gaggtccccg ctggcgctgg cgctggcgct gccgcttgcg ccggcggttt 300
 gggggccttc ggcagcagcg gcgcgcccgg cctcggcggc cggcccggcg ggcttctttt 360
 cttccttctt ggcttctaac ttcaattaac ctgttcttct cgctccgtccc cccgcttggc 420

caacaatgga

430

<210> 40759
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G5

<400> 40759

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gtcataggcc acagccgctg cggcgggcatc aaggcgctcc tctccctcga ggacggcgcg 120
cccgacaagt tccacttcgt ggaggaatgg gtcagggtcg gcgccccggc gaagtccaag 180
gtgctggccg accacgcctc ggcgcctttc gaagaccaat gctccatcct ggagaaggag 240
gccgtcaacg tgtcccttga aaacctaagg tcctaccctg tcgtcaagga agggcttgaa 300
aaagggaccc tcaagctggg cggcggccat tacaacttcg tcaatggaaa gttcgagaca 360
tggaaccct aagtggcctt acgtaccaa tccgccaac cggcctaatt tgc 413

<210> 40760
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E9

<400> 40760

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tgggtaacac gacttgtggg taaagatgag caacctctac agagtgtaaa actggtatat 180
cagacatgct cacgtgcatg agcgactcag acactcacat ggttaactta tagaattaaa 240
ctcaaattgt catttgcatt gcattgtggg tggtattatc aattgtgatc tcatatttaa 300
ttgggttggt atctacttat accaggtaac tgctaataca attttgacga aactaaaag 360
caatgctcag cttaaccat ctcttttggg aagccttaca cttacatgag tccccacctt 420
ttttgagttc at 432

<210> 40761
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G7

<400> 40761

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gacgaggaga gggacttget cgtcacctgt cgcgtccgcg cgtcacgcgg gaccatcgcg 120
ctcgtccggc cgagctgcac ctaccgcgac gcggccacca cggagatggg gcgggtgggg 180
ggcgaccggg tgacgttget ccgcgcggcg agcccggtga gcgcggcgat gtccctgcag 240
gtggagcgcg agtggcaccg cgtccacgcc accgaggaca tggccgcggc gcaggccgcc 300
gcagaggagc acgactacgc ccgcgcggct tcgatcctcg aggcccgccg ccggctgctg 360
gagtcgtgcg cgtggctgtc ctccgaccag c 391

<210> 40762
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D3

<400> 40762

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atcttgata tgtgtcgtgc atttgaccgt gtctttaaa agcacttgga cggagggcgg 120
ccaggtggag atcggattta tgggtgtctt gacaaccagt tacctgcagc actgaaaaag 180
cttccatttg accggcatct ttcaatgcaa aatgttcgta aagttatttc agaagctgat 240
ggttaccagc cccacttgat tgcccctgag caaggataca gaaggcttat agatagttct 300
ttaagctact ttaagggccc agctgaagcg tctgttgatg ccgtccattt ggtcttaaaa 360
gagcttgctt ggagatcgat tgcagcaaca gaagaattga agcgattttc aacacttcaa 420
tcggata 427

<210> 40763
<211> 104
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D4

<400> 40763

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atcgacattg tctctgttga atctgaccgt gtctctatag agca 104

<210> 40764

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D5

<400> 40764

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gcaggtctga caggatgtcg tggcagacat acgtcgatga gcacctgatg tgcgagatcg 120

agggccacca cctgacctcc gctgccatag tcggccacga cggcgccggtt tgggcccaga 180

gcaccgcatt cccacagttc aagacagagg agatgaccaa catcatgaag gacttcgacg 240

agccccgggtt ccttgccccg accggcctct tcctcgcccc caccaagtac atggtcaccc 300

aaggcgagcc cggcgctgtc atccgcggga agaagggatc tggaggcata actgtgaaga 360

agacagggca agcgatggtg gtcggcatct acgacgagcc catgaccccc ggccagtga 420

acatggtggt 430

<210> 40765

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D6

<400> 40765

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tcatggtcgt gggcgccgtc cttgcggcgc tcgtcgccgg cgggtcgtgc gggccccga 120

aggtgccacc cggccccaac atcaccacca actacaacgg caagtggctc accgctaggg 180

ccacctggtg cggtcagccc aacggtgccg gcgctcctga caacggcggt gcgtgcggca 240

tcaagaacgt gaacctgcca ccctacagcg gcatgacggc gtgcggcaac gtccccatct 300

tcaaggaccg caagggctgc ggcttatgct acgaggtgag atgcaaggaa aaacctg 357

<210> 40766
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D7

<400> 40766

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cagctcaagt atatgagcta tcttcacact ttcttcataa ggagtggatc atggaacaat 180
gggataaaag tttctacatc agttctgttg ctggctccaa caatggaagt tctattgtag 240
tgatgtcaaa aggcacacca tatacacagt aatcttataa 280

<210> 40767
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D8

<400> 40767

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gaccaccgta cgtcctgcac cgcgtcgccg acggccggcc tctgcccagc ccgggctgcc 120
tgcgagggct tctgatggcc ctgcagccg tcttttcttg ctagtgccca gctttattgc 180
agatccaggc ctctgacctt cgtcttcttt cacctctcca acatgaaggt caacaccaag 240
atcaagctgg agccgggtcat ggcgccgtcg tcgtccctgc cgcggagcgc cagcgagcta 300
cccgaccc 308

<210> 40768
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-033-Q1-K1-D9

<400> 40768

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ccgacgagcc cgggacatct gcatgccctg aggcgaaatt ctactgcaag aatgcaggcc 120
aactccagt cacgatcttc tcgtcacgag tgaatgacgg catttgtgat tgctgtgatg 180
ggagtgatga atatgacagc aatgtcacct gtaagaacac ttgctgggag gctggaaagg 240
tggcaaggga gaaattgaag aagaaaattg ctacatacaa aaatgggtgtt gttattcgga 300
aacaggaagt tgaaagggca aaagaggctt ttgctaaaga tgaagcagat ttagcaaaat 360
tgaagggcga agagaaaatg ctccaaggac ttgttgataa actcaaagag canaagaaat 420
taatagagaa tgcaga 436

<210> 40769

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E1

<400> 40769

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gccaaagctca cgacggacac caacacgcac gtctccacgc gcgtcatggg caccttcggc 120
tacctggcgc cggagtacgc gtccagcggc aagctcacgg acaggtcgga cgtcttctcc 180
ttcggcgtca tgctgctgga gctgctcacg gggcgccgcc ccatcgatac caccaactac 240
atggaggaca gcctcgtgga ctgggcgcgc ccgctgctga gcgccgcgct ggcgggggga 300
gacgggcttc gccgagctcg t 321

<210> 40770

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-033-Q1-K1-E10

<400> 40770

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ccgtgggcgc cgtcatcgcg gcgacgccgg acaacaagct ccgcgctatg gcgttcgcgt 120

tcgacggcgc ggcggcgccg gaccggggcc ggtgccccgc cgtcgacaag cccttctgcg 180
 agacctacgc caagacggag aaggccttca gcggaaccat cgcttacggg gacacgcca 240
 agagcaagct ggggatcacg gacgccgtgc tcaagctgag gctcgccacc gacgccaaca 300
 tcaacaaggc ctacgaggag ggggacaagg acaagatcgc aaaaatcctt gctgcatacg 360
 gccaggcgga cgacggggtc gctgcgggcc cgctcccgga gaagctcana gtcattggaga 420

<210> 40771
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E11

<400> 40771

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 cgagggcccg agccgactac gactacctca tcaaactgct cctcatcggt gacagcggag 120
 ttggaaaaag ttgtctctg ttacggttct cagatggatc attcaccact agctttatta 180
 ccactattgg cattgacttc aagataagga ctgtcgagtt ggatggcaaa cggattaagt 240
 tgcacatctg ggacactgca ggccaagaac gtttcgcgac gattactact gcttactaca 300
 ggggagcaat gggcatcttg cttgcgtacg atgtcacaga cgagtcattt ttcaataaca 360
 taagaaattg gatcagaaac attgagcaac atgcttcgga taacgtgaac aaaattctgg 420
 tggggaat 428

<210> 40772
 <211> 167
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E12

<400> 40772

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 atagggcccg agcacggtac gattacctca tgcaactgat actgatacga gatagctgag 120
 tcagacatgg gacgaaaatg ataaagctct gagagagcga ttaacac 167

<210> 40773
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E2

<400> 40773

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gttcaagtgc agacaccttc cgtgcagagc aagcagcaga ctcgtgttag acacactgtt 120
gatcgacaca gtacatgctg acagccttct ggcaactgatt cattcatgca cgggttcagt 180
cctgggttga atgttcatga gtcataaacc aaacacgttt tgggcatata gctatgttcg 240
ccatgggtact ctttacgagg gtcttgagtt caccgggtgtt gatgccagaa aagacaatga 300
taacaatgat attcagatctt aggcattctga gaaaccagat actaagatat tgacaggaac 360
atgatggctc tgtggacatg acacgaatgt gattaatggg actgaaacat gttctgat 418

<210> 40774
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E3

<400> 40774

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tacgggtctc ctgacatcag tgcctacgg gtatctcaag gaccatgaaa acatcgtata 180
ctgctgcaat catgttgtcg tacttcggaa ggacttccat ggtgtcaaga atgccaaggg 240
ctt 243

<210> 40775
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E4

<400> 40775

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aaccttcagg tgtgccgatg tgacatctaa cgacttgaag attgaagata actctgggtga 120
tctgatattt tcaaactggc tattaatgta tctttcagat gaggaggtcc aaaagcttgt 180
ggggaaaaatg gttaaagtgt taaaggctcg aggccatatt ttcttttagag aatcatgttt 240
tcaccaatct ggagattcca aaaggaaggt gaaccaaca cactatcgag aaccaaggtt 300
ttataccaag gtattttaaag agggccattc atttgatcaa gatggaagtt cgtttgaact 360
ttttctagtg accttgtaat gcatttgggc ttatgggtcaa aaccagaaga attaaaaccc 420
gatatgc 427

<210> 40776
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E5

<400> 40776

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taaaagtaag tgaattaggc gagggtttaa ttatttattt tgtcaaaact tatgtgagtc 180
atgaaatggt gcacatgct gagcct 206

<210> 40777
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E6

<400> 40777

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gtacttattg agaaagatga aagcctggat aagtttgacc cagcaaaact gaagaaactt 180
cggccaagtt tcaaggagaa tgggtggtacc cgtaccactt gaaatgcctc tagtataaat 240
gatggggcgg ctgcattaag tttggtgagt tggccaaaag gttaagaact tggccttgaa 300
gttctttgaa ggatccaaag attttccaaa tccagttaag gttccgaacc tgtaaacacc 360

aacccaagac ttggcaatcc caaagggtttt ttaaatagcct gatttaaagt catccaatgt 420
ggattttt 427

<210> 40778
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E7

<400> 40778

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tgtcctcaaa gccctctacg atggagatat cctggacgag gaaaccatcg tggactggta 180
caatgatgct gtcgcagctg ggaaggactc ccagggttgc aagaatgcca agccgttcgt 240
cgagtggctc cagagtgccg agtctgatga agatgggtgac gacgagtga gaagccacgc 300
tgctctactg ctaatggcca aacttgataa tattatttca ataagtttgt tttgcttgcc 360
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<210> 40779
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D12

<400> 40779

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gaagaagttc aggacaagat aaatctcatc gttcaagaag catgtccact agcccacatc 180
gtccacgtgt tcgtggaagg tctccagcct tcaatatgtt aacttctgcc tttgagaaca 240
cgagcaatac caggaacctt tccacccctc ccattgttgt gagaaagcct ttctcaaaat 300
ctggatgtcc tgaacactca aggggtgtcac ccaaaaaatc agctatcagt tccctcacca 360
ggtcttttga aggtcacatg aaaagtacaa taccaaattc agtaaaagtg agccctgagc 420
taaagaaggc gacacaggaa gaag 444

<210> 40780
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-E8

<400> 40780

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gcttatcatg gacctcggcc tatgtataga gttcatgaca ttttaatttct cgatgcaagc 120
tattgatcat atcattaatt cagctgccaa gtcaaattat atgtcagctg gtcagatata 180
tgatcctatt gatttttagag gaccaaacgg agctgctgct ggagatgggtg ctcaaacactt 240
acagcgatat gcaacttggg ttggacaagt tccaggactt aaaggtccta aaccatactc 300
ttc 303

<210> 40781
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B6

<400> 40781

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agccatggcc acaaagtgtt tgtccaaagc ccattgatac ccggtcatgg cgatggatct 120
aatgtgccag tcatggatga cac 143

<210> 40782
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-033-Q1-K1-B7

<400> 40782

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caccgcaagg ttctccgga caacatccag ggcatcacga agccggcgat ccggaggctg 120

gcgaggaggg gcggcgtgaa ggcgatctcg gggctcatct acgaggagac ccgcggcgtg 180
 ctcaagatct tctcagagaa cgtcatccgc gacgccgtca cctacacgga gcacgcccgc 240
 cgcaagaccg tcaccgccat ggacgtcgtc tacgccctca agcgccaggg tcgcaccctc 300
 tacggattcg gcggctgaga ggcgctaccg ncgctgggtg ccgtggcaaa agtcttgggt 360
 cgcggtcaag aaatcgagag tattctggat gacgtgctta ggttcgt 407

<210> 40783
 <211> 138
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B8

<400> 40783

cagtcgcatg gctcagagca ccatgcttcg gcttggcaag ggcgggaagg gtctttgcc 60
 atgcgtagcc aagcttcacc gtatggttct acgcgacaac atccatggca tcacgaaccg 120
 gcagatgctc aggctgat 138

<210> 40784
 <211> 266
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B9

<400> 40784

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 aggggcgatg gcggcggctg atgtggagta ccgttgcttc gtcggcgggc ttgcctgggc 120
 caccagcaac gactcgctgg agaatgcctt cgctcctac ggcgagatcc tcgactccaa 180
 ggtcatcacc gaccgggaga cggggaggtc tcgcggcttc ggcttcgtta ccttctccta 240
 cgagaactcc atgctcgacg ctatcg 266

<210> 40785
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C10

<400> 40785

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cattacattt catggcatat gagcgggtacc ggtgttggat tttgaataac tgtccctcac 120
tggaacagg gccttttagta gatcttttag ccggttcagc atcaggggga actgctgtat 180
tgtgtactta tcccttggat ttggcccgga ctaagcttgc ctttcaggtc aatagttcag 240
atgaactcag cagagctttg aaaaggggaa gtccccagcc agcatatgga ggaatcattg 300
atgtcttttag atgtgtttac tcagaagggtg gagtgcgggc tctttaccga ggtgtaggtc 360
caacactcat ggggatactt ccttatgctg gtcttaagtt ctacatatat gaagggtga 420
aggtcat 427

<210> 40786

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C11

<400> 40786

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tcgacgacag ctacaactga agtgcgcgct cgatcgatta caccctgact gtagagaccg 120
tgcagtggca gaacacacat cgaggctgag ctgatcaagg agcatgctca actttgtctg 180
ctccttgatc tgcctgcaga acgtcaagta taatggtggc gcacctgtat gatcacttaa 240
gtgcgaaact atcagaggat gcacttta 268

<210> 40787

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C3

<400> 40787

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tgttgatgat gttgctcggt ccaacttcgt tttcagtaat aataacaaca aagcgaagac 120
cctgctacat accctatttg cttgagcgga tctcgctccga gccacaagat accacatggt 180

gcgctgggaa tattcagtta ctatgacccg ctttagttga cctatTTTTT tggggggcgc 240
 ggttcgatca ttctggctgt agcgtgaatc gcatggacaa cagaatgcac ttgctaagca 300
 aatattgctc ttatgcatat atttgaagaa ccatgtacaa gcccgacttt cgcaaagtaa 360
 tgctggaaat tgagttataa atcacacgac atactttaaa ccatctgct 409

<210> 40788
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C4

<400> 40788

cattaacacc ggcgccaccg ccagcacaca ccagctcgcc ggagatcaca agaagatata 60
 ggaccgtgct cctcgacgcc gcccgacatg ggcggacgcc cctctggccg cggccacgtc 120
 gtctaccctc cccgctccgc cgaggacatc ttcaaggact accgcgcccg ccggtccgcc 180
 atcctccgog ccctcactca cgaggtcgaa gacttctacg cgcagtgcga tccagacaag 240
 gagaacctgt gcctgtacgg ctacgccaac gaagcgtggg aagtggcgct gccgpcagaa 300
 gaagtgccca cggagctgcc ggagcc 326

<210> 40789
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C5

<400> 40789

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 tctccgagta cttggaagtg tgggtgagcc aatcaacccc accgcatgga ggtgggtttta 120
 tgatgttatt ggtgactcac gatgccccat atcagatact tgggtggcaga ctgaaactgg 180
 gggattcatg atcactcctt tacctggtgc ttggcctcaa aagccaggat cagcaacggt 240
 tcctttcttc ggtgtgcagc cagtcattgt tgacgagaaa ggtcgagaaa tggaaggaga 300
 atgcagtgga tatctttgca taaagaaatc atggcctggg gctttccgga ctctgtatgg 360
 agataaagag agatatgaga cgacatactt caaaccattt gctggatatt atttctcggg 420

cgatggctg

429

<210> 40790
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C6

<400> 40790

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catcgagac cggctcgacc tcaagtggta cgccagcgcg cggggcgctc gcacggcgtg 120
gcgctgcgcg ctcccgcgcg cgtcgccgcg gctcctcgtg gtcgctgacg acgctcgatg 180
ttgcccctac gctgcctccc tccccacgcg gaggtcattc gagctcaccg ccatcgtctc 240
gggaagccgc tgcattggct ccagcaacgg ctggatcggg ctcttcggcg tctcttcaa 300
cggaagaac gtcttcgggc ttcttaaacc catcgccgtg tgggagaacc ttcttcggcg 360
ggttgccaa taaaagccgt tgggtttcca aggccgcttt aaccgaagc ccg 413

<210> 40791
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C9

<400> 40791

gagacttcct cgcctacatc ccatcccgcc gccgccgtct ctacggtcgc taataagcag 60
ccgcatccag ggatggagat gaagaagatc gcctgcgcgc tctcatcgc cgcttcggcc 120
accgtggcgc tggccgcgga ggcgcggct cgtctccca ccagcggtc ctccgcggtc 180
gcaccgcga tcgtcggggc cgacgtggcc tctttcttcg cgtactacat tcaactgagc 240
gccggacgag gagccggagc cggagggag agaccaaggt ggggggagag acttggtgc 300
gctgcgtgc tctgctgctc ccgcgcattc ccgatgcgtg ggcgtgctct gattgggcac 360
ggcgggtggc gtggcacacc ttcgtcttcc ttatgaatgt tttttttcc tttctcttcc 420
tacttgattt tcat 434

<210> 40792

<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D1

<400> 40792

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attgtattgg actctggtga tgggtgtcagc cacacagtgc caatctatga aggttatgcc 120
cttcctcatg ccatactgcg ccttgacctt gctgggcgtg acctgactga cagcctgatg 180
aagatcctca ctgagagagg ttactccttc accacctctg ctgaacgcga aattgtaaga 240
gacatcaagg aaaagcttgc atatgtggct cttgaatacg accaggagct cgagaatgcc 300
aagagcagct catctgtgga gaagagctac gagctgcctg atgggtcaagt gatcaccatt 360
ggggcagaaa ggttcagatg ccctgaggtc ctctttcagc cttccttcat tggatatgga 420
gctcctggca 430

<210> 40793
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B5

<400> 40793

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gcaggaagag agaaaagcgg aagagcttcg tcgacagctc gtgtacagag tcgctctgtc 120
ctcgatagat ggcttgggag ggctgtacag gcgtcccaat ggtgtcatga ccttacccca 180
cagaacttgg gcagtcgtgc ggaactttct cgacgacgtc gaggaaccac cggacttccg 240
ccctgcgccg tggtcagtgc tgatgctcgc gtggctcacc cgaggttacg agttgactga 300
acatcaccct ggttactggg atctcaagtg ccaagcgcgt tgagcccttg atccactctt 360
ggtagccaat aatgatcttt attatcacta ttca 394

<210> 40794
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D11

<400> 40794

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gagcgggtggg cgtcgggtgac cgttctggga gtgggagagg gcgaacacgg acgacgacaa 120
gggccgggga agaagaagat ggggtggctgt ccgggggatgg ggagcaagag caagtcgttg 180
ttctgcgggg ccttcaatct cttctccaga tagccggcgc cgccgcttgt ttttgttcct 240
actgccgtga caaaccttct tgtgatttct ttatttgcct ttttgctaga agttcttatt 300
ttcatgtgta aattttgtac cattgccgtg ggtagaaaa tcacattttt cc 352

<210> 40795

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-H5

<400> 40795

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cacatagact aggacttatt ccacttgatg cagatccaag actctttgaa tatactcat 120
aaaacgatgt cccaaatgaa aggaatacta ttgtttataa actgcacgtt tcttgtccaa 180
agaattctca acgaattaca gtgaaatcta gtgaactaga gtggttacca gaaggtagcc 240
aattaagcat gtcagcccct gcacagtctg gagacaaaca gaagactttc acttccttca 300
gtcaaagcca aaaggagatc ttagaaaagc ctcttggtgt tggacaagag tttttttaa 360
aattttttt 369

<210> 40796

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A1

<400> 40796

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gccgcagcat ggcatcatcg gccgcgtctt tgggtctagc cctcgcgcta gtggcggaca 120

ccgccccaca ggtagcggag gcaaagaaga agagagcggc ggagagcggc gaggcggcgg 180

<210> 40797
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A10

<400> 40797

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gacctgcgga tctcatgcaa gctcaggatg gcggccttgc actgtgcagg aggccgactg 120
tctcacctag cacagctgcc tgactctgac acgcgctaac cgccctggct agtaccagca 180
tgcatatcaa cgtggctgct actacaaatc ggacgtacag agtctgcata gcctgaacca 240
tactggcatg gatcagaca ctgcaccaga ggtgcatagc aacagttcag tacaagaact 300
ctggcccatc catggcgcaa agcaaaggtt c 331

<210> 40798
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A12

<400> 40798

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tacaagagac tacctgtttg gcccatccct ggagcatact cgtcgtgcag tggatcatat 120
ccattgtaat gaagtgcacg gtcgaagcac ctgcgtccac tgacaggctg gaaggggacg 180
aaacaccaat ataggtctgc gtttgttgat cacttacaga gatcttactc ctgacgtagc 240
tttgcacat g 251

<210> 40799
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A2

<400> 40799

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acagatgcag tcaaacatct gataccgatt cttgagcttt gtgatggacc tctggttttt 120
caaatacata gtgaggctct caatgctttg ttcaaccttt gcaagattaa taaaagaaga 180
caggaacagg ctgctgaaaa tggaatcatt cctcacttga tgaatcttgt catgtcag 238

<210> 40800
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A4

<400> 40800

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agtccaccat gcagtcgac aaggaggctg tcgtcggcca ctccgacgcc gacatcttgg 120
acaccctccg cgagtctaac atggacccca acgagacggc gcagaagctg ctgaatcaag 180
atccatatca cgaagtgaaa agaaaaatgg acaggaagaa agagagtgct 230

<210> 40801
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A5

<400> 40801

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cttgacaccg gggaccttcc gcagatcgac ggcctttcag aagtagcata ctacccaacc 120
gccaccgatg aggccaccat agggcaattc aaccagatgg ggcttccgac gaccttagct 180
gaacagatgc ttccaatgca gatgaacagc agtgcacccg ccttgatggc cctcacttca 240
gactaccatg aggggttcac aagggccgta ggttgaagg tcaagggtct ggatggaact 300
atggatcaat tggaactgg agccattctt tc 332

<210> 40802
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-033-Q1-K1-A6

<400> 40802

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catgggagac cggcatcagc atgggcctgg cagcggcggtg gaggaccgg cgacgtgtgt 120
gcggcggttg cagaccggcg cgcccaactc gacgcaggtg gtgggggttcc tgacgtgtgt 180
cgtctctggc gccgtgtgtc tgtgtgtgac ggggggtgacg ctgacggggc cggtggtggc 240
gctcgtcttc ctggggcccca tcgcgtgtgt caccagcccc atctgggtgc ccgtcgccgt 300
cgtgatctcc gncatcgtcg ccgncgcgt ctcgcctgc gccttcgccg gggcggggt 360
tcccgtggcc acctggatgg accggtactt tacggggcgg caaccc 406

<210> 40803
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A8

<400> 40803

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ggccaagtac ctgcgtctct ggcgcgcgcc ggttgggatc accatggagg tgaagccgag 180
ggtgcttgag tttagcaagg tcggtgagga aaaggagttc aaggtgacgg tgacgtcgca 240
gcaagacaag ctcgggatgg gctacgtctt ttggaggctc ggctggacag acgggaccca 300
ctatgtcaga agccccgtcg tcgtcaacgg ccttgcata tctatcccag ttggggctac 360
ttgaagtccc taactacttc tactacctgg aggccttggg gaattttggg gcc 413

<210> 40804
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A9

<400> 40804

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gaagttgcta catacattaa tggggcgggt actacactag catgaagtgc tgacatgcct 120
 tcattgccga acatagtccg aatctcatag actttctcaa gccattcaac caacaacctt 180
 ttcaaaggca gatgtatcgc actcctcaag tcaagatctc ttcgaagcga gctacagtat 240
 gtcacatcaacg gtctagc 257

<210> 40805
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-033-Q1-K1-B1
 <400> 40805

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 caggtccagc aaggcccttg cagaggaaac agacaaaccc aagaaatgtt gaataatatc 180
 aagttgttgt ttataaccc ttggggagaa cggagcgaaa aggggtcccac aggatgattc 240
 cttgcggcat gctcgggtgg aaagggaaaa aaacccttct ggcgaaaaga gagaattcag 300
 tcgactcgtc atatttacca agcggtgaga cctgttgtgg atcctggagt atgacctatt 360
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<210> 40806
 <211> 341
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-033-Q1-K1-B10
 <400> 40806

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 ggccgccacg ccatcggggg cctctacgga gccatccacc gcgtcacgtc gctccaagac 180
 gacgggcccc ggagtctgag ggaggcgtgc cgcgcgagg agcccctatg gatcgtcttc 240
 gaggtgtccg gcaccatcca cctccactcc tacctccgcg tctcctcgta caagaccatc 300

gacgggacg gncagcgct agtgctcacc gggcagggg t

341

<210> 40807
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B11

<400> 40807

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tcgtcggagt cagctcatca gcgtgccagc accagtatac acacgggact agctcgttcg 180
tggttactac gtttggggcc tcggttgcg tgattagagc tatctttgat gcatgtgacg 240
gcagtttaag ttagagaaga ttatcttggt cattgacttt aaggctcgcgt gcagtttgtg 300
ccagaaaatg tgtaactgcg tatgcatgca actatgcaag tacagtgttc aaaataaa 358

<210> 40808
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B12

<400> 40808

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ccatttcatac agaaagcgcg attactgcta aacaagagcc tatatccagg tctataccaa 120
tcggatcgat cgcgaggacc ttatcatggg acgacgcttc ccaagaggct ctttcgcagt 180
gttctaccaa aggagacagc aaccacgagc aggagcagca cgagttcgtc gagaagacgc 240
tggcatccgc tggcttctgc aacgagaaga cccaggacat ctttgcccgg tggcattcgc 300
tcgaccggcc cttggacccc gccgtggtcg agcagctgct ggaacgcaag gtggaggacg 360
ccaagtgccg agagaggcgg tcgaaccaga ggctcctaata cgactctgtc aacgcc 416

<210> 40809
<211> 268
<212> DNA
<213> Zea mays



<223> Clone ID: LIB3075-033-Q1-K1-B2

<400> 40809

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agttgaaagg gcagttgttt cctgtgaagg tgatctagaa agggccgagg aggccttgaa 120
gacacacaag caagaatcaa ctgcaatccc accaaagcct gaggggtctg gctattcaag 180
tggttgctt aataagcccc aagttgtact tgcacagaac cctgcaaggc cttaaacaaa 240
tggattatca tcagtaggat ctcatcag 268

<210> 40810

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B3

<400> 40810

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caccgcaagg ttctccgcga caacatccag ggcacacga agccggcgat ccggaggctg 120
gcgaggaggg gcggcgtgaa gcgcacatct gggctcatct acgaggagac ccgcggcgtg 180
ctcaagatct tcctcgagaa cgtcatccgc gacgccgtca cctacacgga gcacgcccgc 240
cgcaagaccg tcaccgacat ggacgtcgtc tacgccctca agcgccaggg tcgcaccctc 300
tacggattcg gcggctgaga ggcgcta 327

<210> 40811

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-B4

<400> 40811

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ttcaccaatg cccaggaaga atcttcacat cggactctcc caccgttccc ctgcatccca 120
ggccagccac ggcccccgcg gttgccacct tgcccgcggg caccaaccga gtgctacacg 180
tcgctgtcgg gaatgatgcc gtgcgcggac ttctcaacc acaacgag 228

<210> 40812
<211> 165
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E9

<400> 40812

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gcgggtgtaa actcagcctt ggggtggttg ccagatacag tatttgattc tctaattgat 120
tcatgtatgg atgttgctga tctcttttat gaacaaaacg tgctg 165

<210> 40813
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-F2

<400> 40813

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ggcggccacc gcccacagg tagcggaggc aaagaagaag agagcggcgg agagcggcga 120
ggcggcggag gcgaagaaga tccaggacga cttctgctcg acgctgtgcg agggcaagaa 180
ggggacggac ctggctcgtg gcaaggagtc ctgcgcgctc tcccagcagt ccaacctggt 240
gctgtacggc aggatccagt gcaagggcaa gtgcaccgag cagaagggca tcacggcgcc 300
ggccatgaag gtctgccagg aggagtgcga caaggcgtac gttggggttg gggaaaaaaaa 360
aaaaaatggg gggg 374

<210> 40814
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-F3

<400> 40814

cagagaacat cactacggag caggggaaga cgctaaaaga tgcttggggc gacgtgttcc 60
gcggcctaga ggtggtggag catgcttggt gaatgggaac actgcaaag ggccaatatg 120

tatcaaatgt ttctaattggg attgacacct tcagcattcg ggagccactt ggtgtttgcg 180
 ctgggatatg cccatttaaat tttcctgcta tgattcccct atggatgttt cccatagcag 240
 ttacgtgtgg caatactttt gttcttaagc catcggaaaa ggacccaggg gctgctatga 300
 tgcttgcgga gctagcaatg gaagctggtt tgcctaaggg tgtctttttt ggggg 355

<210> 40815
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-F4

<400> 40815

cactccccta ccgccacccc taaaactagc cccattccct taccagcgtc cgatcacact 60
 gctgggtccc acgcttgat ggattccgtc ggtacaaatc ggcccccgct gcgccccgtt 120
 gccgccgag ctactcgacg cagcgcgctc ctgcgcccc ctagccacct cgggctcggc 180
 aatcgttttg cggagactaa gcttgggac gcgtcagggt gtggaggagg aggagggtat 240
 tttggaaagg tacagggatt tgatgccttg cggagtacca cgacgaaagt tcagagcggg 300
 aaggcgggga ggagtgtgac caaggaaatg ggacacactt 340

<210> 40816
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-F8

<400> 40816

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 tcatcgcggc gacgccggac aacaagctcc gcgctatggc gttcgcgttc gacggcgcg 120
 tggcgccgga cccgggcccg tgccccgccg togacaagcc cttctgcgag acctacgcca 180
 agacggagaa ggccttcagc ggaaccatcg cctccgggga cagcccaag agcaagctgg 240
 ggatcacgga cgccgtgctc aagctgaggc tcgccaccga cgccaacatc aacaaggcct 300
 acgcggaggg ggacaaggac aagatcgcaa aaatccttgg cttgccaaaa attttttaaa 360
 aaccccc 367

<210> 40817
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-G1

<400> 40817

agcccatgaa gctctcttgg ggcgccatct ggaggatgga cactgccaaag gcgctcaagg 60
 gcccttctc catccgctc accagcgagt ccggcaagaa ggatcatgcc aaagacgtca 120
 tcccgccgaa ctggagaccc gatgccgtct acacttccaa cgtccaattc tactagactt 180
 tgaattccct tcgattcatc cggcgcggtg ggctatggac ctgcagcagc aagctaatta 240
 agtttatata tattgcatga gagagcatgc accgctaacc atatatacta ctgagacttc 300
 tgaattctag tatatgtaat cctttttgtt tgggtttagg agggcaaact tttttttccc 360
 cccttttttt 370

<210> 40818
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-G2

<400> 40818

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 gcagatcatt gttgtggtgg ctctcctttt tcttgtggtg gcaacatcat catcagtgtg 120
 ggttgacaga ggagccgatg acttaaaagt ttcttgcgtt aaagagtga cccaaaattt 180
 taactctcc gagggcaaga agatctgtga aacgatgtgt gccaaccta aaggaaggcc 240
 tatcgacaga gttagagctg attgatcaat gctcatcttt attttagct agctatcatg 300
 catgcgatga tggccttctt gattattatt atttcattcc ttcattggtt tttttttggg 360
 ggtttttttt tttttttttt tggggggtgt tttt 394

<210> 40819
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-G3

<400> 40819

gttagcccgat tcagatcggt tttccctcga ggtgagagta agatgagggga gatcctgcat 60
atccagggag ggcagtgcgg gaaccagatc ggctccaagt tctgggaggt ggtgtgcat 120
gagcacggca tcgacccgac ggggcgggtac atggggacgt cggacgtgca gctggagcgc 180
gtcaacgtct actacaacga ggcttcgtgt ggtaggttcg tgccgcgcgc ggtgctcatg 240
gaccttgagc ccggcaccat ggacgccgtc cgcacgagcc cctacggcca gatcttccgc 300
ccagacaact tcgtcttcgg ccagtccggc gccggc 336

<210> 40820

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-G4

<400> 40820

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agacataata tgataataaa gaactaaata aaattaaggg ttcagaacga ggttgttact 120
cagcattaat caaataaatg aagcccttgg ctggagttcc aaactaaact actgcatctt 180
gttttccttt atcatgcccg tacttgcttc cttcttttat tcataccatt gattttatct 240
agtcttaat cattatatta ttgatagatt tatgtttatc tattcttttc tatattcctt 300
tattgttttc tttttcattt tgatctcttt tttttctttt attgtgtttc ttattttttt 360
ttattttctt acttattatt gttatttatt tttttctttc cttttt 406

<210> 40821

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-G6

<400> 40821

atgaccgcaa aggattgctg catgatgtgt ttcacatact atctgatctg gagctaatag 60
gccacagggt gaaggtggcg accacaccgt acggaagagt tgttgacctt ttctgtatca 120

ctgatggcat ggaactgctg cacagaatgg agaggcatga ggagacctgc tcggagctaa 180
catgtaccct gggcccttac atcaactgct aggtcgtacc agcagaatgg atccagcatg 240
ggttttcttt cctgccgctt gagatcggct aggaactggt catggcggag cttgctgaca 300
ctgacag 307

<210> 40822
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-H1

<400> 40822

caagaaaatg aacaagaaca agaagcttgt taagaggctt gccagaagt accatgcttt 60
cttggcatca gaggccatca tcaagcagat tccccgtctc cttggctctg gtctcaacaa 120
ggcaggcaag ttccccgacc tggttactca ccaggaatcc ctccaatcca aggtgaacga 180
gactaaggca accgtcaagt tccagctcaa gaaggctcct tgcattggcg tcgccgtcgg 240
caacttggcg atggaggaga agcagatcca gcagaacatc cagatgagcg tgaacttcct 300
tgtttccctt ctgaagaaga actggcagaa tgtgagatgc cttctta 347

<210> 40823
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-H2

<400> 40823

tttgatattg agttctctgt cacacataag gagttggatt tctccattt attggatcac 60
ctaagaagga ttctcagggg tcaggtctca ttatttgatt ggtccaggtc aacatcacta 120
gctaggacct tttctcctcg tgttttggag aaccaaattg atgccagaaa agagttggag 180
aaaagcctta aagctacctg tgaagagttt ataattgtcca taactaaatt agtagttgac 240
ccaatgcttt cttttgtaac aaaggaactg ccgtcaaagt tgcattgtcc tctggtagcc 300
agtgtcagaa attaaattca gttctagcaa aaccctttga aagaaccttc taaaaatggg 360
gttccccccc tttttttttt atttttt 387

<210> 40824
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-H3

<400> 40824

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atcaaatttg gtacaagaga tgaacctgat tatgaggtgt acttgcacag aattggcaga 120
gctgggcgct ttggccggaa aggtgctgtg ttcaacttgc tgtgtggtca aaccgataat 180
gttgtgatga agaagatcga ggactatttc cagcacagtg tgcctgaggt tcggaattgg 240
caacgtgaag aagattttga ggctgctctc aaggatgcag gtttacttta aagtaaccac 300
ggaaacttgt ggtgtttttt gctgagcctg ctgcacaacg tttattttgg ggtttttggg 360
ggggccccct ttttttcccc cttttttttt tttt 394

<210> 40825
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E7

<400> 40825

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tatacgtaga tacacgcgtg tgggattaaa tcaatgatta aatcaatccc tacttcctct 120
gtggaaaaaa aatttgacca aactgtactg tgatgtgtaa caatgccaca acacagtact 180
tgaaggcaaa cgtatgtaga ttaattagca gaacgacaac ctgtgatcca tccttgcttt 240
cttccatgaa atgaaacgca gccagcgcga cctggcatgg ccaggccatg agctagaaga 300
agcagcctga tgcccaccgg ccttcagcac ggcttgcccc 340

<210> 40826
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-C9

<400> 40826

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ggccaggacc aaagacaaca atctgctcgg caagttcgag ctctctggca tccctccggc 120
gccagggggc gttccccaca tcaccgtgtg tttcgacatg gatgcgaacg gcatacctcaa 180
cgtgtcagcg gaggacaaga ccaccggaca gaagaataag atcacgatca ccaacgataa 240
aggacggcta agtaaggagg agatcgagaa gatggtgcag gaggcagaga agtacaaagc 300
cgaggacgag gaacaccata agaaggggaa cgccaagaac actctcgaga actatgccta 360
caatatg 367

<210> 40827

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-032-Q1-K1-D1

<400> 40827

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ccgcccggcg taaagaaaac gtcacctcac cacagccgcc acgccatggc cgaggagacc 120
gacaccaggc ctgcctccgc gggctcccga ggccgccccg cgcccagga cgacgacagg 180
gaggagggcg agatcaccga cctcgcttgc gctccttccc cgcccgccac gcacccgctc 240
gagcactcct ggaccttctg gttcgacaac ccgcagagca agtccaagca ggccgcctgg 300
gggagctcca tccgccccat acacaccttc tccaccgtcg aggaaattct ggggggnggg 360
gggggggggc cccccctttt tttttgtttt 390

<210> 40828

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-D12

<400> 40828

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tctggtgatt cccctgacgc agtcgccgtg gatgaggatg gggatctcgt tctggaccgg 120

aggagaagaa acaaatatgc tagaggtgac cgccatctgt tcactattca gcatggtggt 180
 accagctcgc ttaagagcgt tgggcttcag ccgtgcaggt ttggaaagcg gccttactat 240
 tatctgactt gattctgcac gaaagctttt catcggcaaa ctttgatggt gttactgcc 300
 ttgagatagg tgctggaaca gggttggttag gtttagcact agctcgagtt gctagaagga 360
 ttttgggtaca gatagaggca ctgatatacct tgataattgc ttg 403

<210> 40829
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-D3

<400> 40829

gtaacacagt tgagcacgac gatgggatcc gtcgctaata acatcatggt cgtgggcgcc 60
 gtccttgagg cgcttgctgt cggcgggtcg tgcgggcccc cgaagggtgcc gcccgcccc 120
 aacatcacca ccaactacaa cggcaagtgg ctaccgccca gggccacctg gtacggtcag 180
 cccaacggtg ccggcgctcc tgacaacggc ggtgcgtgcg ggatcaagaa cgtgaacctg 240
 ccaccctaca gcggcatgac ggcgtgcggc aacgtcccca tcttcaagga cggcaagggc 300
 tgtggctcat gc 312

<210> 40830
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-D5

<400> 40830

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 cttcatggtg gggagaagca agccaggctg cggcttcctt cctgccctca gttcaagga 120
 tgttcatcat cctcgctggg gtggaaggcg cgtcgagccg gggttctgcc tcccgcattg 180
 gccagcggcc cgcttcttcc tctagcattc gggggacgag aggggttcac cagccatgcg 240
 aaggaggcga actttggcta cgcggcgccg gtcagggtgca ggcgctgaca gctgctgcgt 300
 gcctggctct tggcctgcgt ggccctgccg ccgtctccga caactgtcg ccttttttt 359

<210> 40831
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-D6

<400> 40831

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 gagaattacg caagtaccgg agaaaagggt gaggtggagc tgataaattg cagtgtgaag 120
 gggtttggtg tgtcacttga ctactgata ggtttcttac cgtaccgtaa tcttgctaca 180
 aagtggaaat tcttagcctt tgagacttgg ttaagaagga aggggtggcga tcctttcttg 240
 tacaagcaga gtttgggatt agaggatagt tttgagggtta atgacacata cctataacca 300
 aaatctagct cagtttccaa aatagctggt tgatgaccca taagttaaaa aaaatttttt 360
 ttctctcttt ttttttcttt tttttt 386

<210> 40832
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-D8

<400> 40832

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 tggttggttc gtgcaccacc ccgctcacct tccaggctcg caagggctcc aagcccggcc 120
 acttggtcct ccccccaac gttgccacca tctctgacgt ggagatcaag gagcacggtg 180
 gcgacgactt ctcttttacg ctcaaggagg gtccgactgg cacttgacg cttgacacca 240
 agaccccgct caagtacccc ctctgcatcc gcttcgctgt caagtccggt ggctaccgca 300
 tcgccgacga cgtcatcccc gccaatcca agggccgggc aaccccccaa aaaaaccttt 360
 cccctttttt ttaaaacccc ccaa 384

<210> 40833
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E1

<400> 40833

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agccaccctc tgttgtccct ggaggtgacc tggcaaaggt ccagcgtgcc gtgtgcatga 120
tcagcaacaa caccgccgtt gccgaggtgt tctcacgcat cgaccacaag tttagacctta 180
tgtacgcaa gcgcgcattc gttcactggt atgtcggatga gggatatggaa gaggggtgagt 240
tctcagaagc ccgtgaggac ttggctgctc ttgagaagga ctatgaggaa gtcgggtgcag 300
agggtgccga tgatgagggg gacgagggag acgactattg agtagccttt gggggcccct 360
tttttttt 368

<210> 40834

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E11

<400> 40834

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gtgcgtgtgc aggtgctggc ggcgatggca ctagcatttc tggtagggcg tgccctggtgt 120
ggtcctccca aggttcccc gggtaagaac attacagcca actatggtag tgattgtcta 180
gatgccaagg caacatggga atggcaagcc aac 213

<210> 40835

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E2

<400> 40835

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ctctccaagg tcaattctc gctcatgtca cctaagggcg accaagtcta ggcggaggag 120
gcagcgggtc gagggtcacc gaagaggtga tgaatggtgt gcgccccgt ctggaacaac 180
ttcgtgctcc gtacacagag gacaatgtgc tgtgggtggg gttgtcggcc atgtacaaca 240

tgagggtgtgt gggcataggg ttgtccgaga acgacctcat tgtgggagtc gactgcgtgg 300
tgtatgaagc agtggtccta ggagacttcc caagaattc 339

<210> 40836
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E3

<400> 40836

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aggacggcaa gggttgcggc tcatgctatg aggtgagatg caaggaaaaa cctgagtgtc 120
cgggcaatcc agtcacggtg tacatcactg acatgaacta cgagcctatc gctccctacc 180
acttcgactt gagcggcaag gccttcggct ccctggcaaa gcccgggctc aacgacaagc 240
ttcgccactg cggcatcatg gacgtcgagt tcagaagggt gcggtgcaag taccctgccg 300
ggcagaagat tgtgttccac atcgagaagg gctgcaaccc caaactaccc cttt 354

<210> 40837
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-E4

<400> 40837

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aatgggagat ctgcaaaccc agtcacctg tggctgacag gttgcagtgg tgaaatggcg 120
accatcttc agagaattcc tgggtatgat aagtggatca ttgaaagggc ggccaggcct 180
tatattgaag catttgaaga ccgtaaagaa aacctcgtgt atcttacagc agatgctgag 240
acagtgcttg atgatctaga catgtcgaaa atatacatca tcggcggcct ggtggatcga 300
aacagatgga aaggcataac actgaagaag tcagcttgag gccagggggg ggggaaaaaa 360
aaaaaatttt ttttttccc cccc 384

<210> 40838
<211> 303

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-032-Q1-K1-E5

 <400> 40838

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 gagatcgagt cggagttgga ttcggaggag gagaggccga cgcggcgggc caagacgagg 120
 aaggaaaggg aggatgagga gagaaggccg aggacgaagg agatggagag gagaaagagg 180
 acggagaagg cgaatgagag ggacaggatg aagatgacga acgaggacat gacgagtccc 240
 tagctcatcg actagactta catcgctgtt ctttaagcact tgtggcgatc attcgcgttg 300
 ctg 303

<210> 40839
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-032-Q1-K1-E6

 <400> 40839

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 gatcattcat ccgtaatgcc gaacatccag cagtgtttgg atgccggcaa ggggtgaggcc 120
 cagggcgagt accaggcgga gcacgcggag cacagcgtca aggacaccgc cgaaagcgcg 180
 gacgtcagtg cgcacctgca gaaggaccgc cccaccgaca ccgctgagca ggtggagcac 240
 acggtccaag gcgtgaagga cagcgtcaag gacacggtgg ctggcgctgc gaacaccgtc 300
 acgaacacgg tggcgggctg tacggacacc gtcacgaaac ca 342

<210> 40840
 <211> 328
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-032-Q1-K1-A8

 <400> 40840

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ggagagagag ggctaggggtt ttgtgcccc caccgctcac gcatcgaatc cgagccgggt 180
 cgggggttgct gcgaatcgcc ggcggtgctt gggctgtgat tccattgcaa tggcatctga 240
 aactgatgag aaagctaaga tggagagttt gacatctgct gcagcctttg tggaggggtg 300
 cattcaggat gcatgcaaca tttgcctt 328

<210> 40841
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-B1

<400> 40841

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 taattattgg tgttagtttc ctgctttccc tagtccctcg caatcaacag atacctcatg 180
 gacgatcagg agaacgagaa tgagcacgag aagcatgccg atgctgggac tgacgtcgag 240
 gacgaagagg aggacgaaga tggccacaag cgtgtcgtcg ttcttgggcc ccaagtcccc 300
 ctcaaggaac agctggagct tgacaaggat gatgagagcc tgaagaaggt gggaaaaaaaa 360
 gggggggggg gtaaaaaagg gggccccccc c 391

<210> 40842
 <211> 260
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-B10

<400> 40842

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 gtgtgatttc tatgttagcg gcgactggat ttccgaggtt tgatcttcag cttctgggaa 120
 tgggacctga tggccacatt gcgtctcttt ttcttgcca gcctcttggt aacgagaaat 180
 agaggttggt cacatacatt aaggattctg caaagtcttc ttcagagaga agttcattca 240
 cgttttcagt aatcaactca 260

<210> 40843
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-032-Q1-K1-B2

 <400> 40843

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 gggaacagcc tccgtggtcc tcgctggcct cctggcggcg ctcaaggtgg tcggcgggac 120
 acttgcgga cacaattacc tgttcctcgg cgccggcgag gccgggactg gcattgccga 180
 gctcattgct ctcgagatgt ccaaacatac tgggtctccg atcgaagagt gccgcccga 240
 gatctggctg atggactcca agggcctgat cgtggtgtca cggaaggact cgctgcaggc 300
 gttcaagaag ccatggggcg acgagcacga gcccggtg 338

<210> 40844
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-032-Q1-K1-B3

 <400> 40844

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 aagatcaagg atgagctcat tacgaatgct gtctacattg gcacccatgg caagggtatc 120
 cttgctgatg atgagtcac tggcaccatt ggcacgcgcc tattccagaa tcaataggca 180
 gaacgtcgaa gagaaccgta cgaccctccg tgagctacta ttctagcagc cctggtgcta 240
 tacagtacat caccatgtg atcctcttag atgacactat gcaccacaag accaaggatg 300
 gctatccatc ttgatgatgt cctcaaggac gcaggcatca ctgcatggac atcaaaagg 360
 gggggttttt 370

<210> 40845
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-032-Q1-K1-B4

 <400> 40845

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atcaccaagt tggggcgctc tggcaatggc aagacggata gcacgaaggc tgtgcaggag 120
gcgtgggcat cggcgtgcgg cggcaccggg aagcagacga tctcatccc caagggcgac 180
ttctctgctg gaccactcaa cttcacaggc ccatgcaagg gcgacgtgac catccagggtg 240
aatggcaatc tgctggcgac cacggaccta agccagtaca aggatcatgg taattggatc 300
gagattctac gcgtggacaa ccttgtcatc accggca 337

<210> 40846
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-B5

<400> 40846

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aaccaagggg aaagccaaaa aggtgggggtt cttctccggt cgcaagaagg agagcatctt 120
caagtcaccg gacgaccaca gaggtaaggt ggggtgtcact gggagtggca agggcctgac 180
cgacttccag aggagggaga agcatctgca ccttaaaggt ggggtccgggg atgcagcgga 240
tgatgacgag gagtaaaactg aagaaccgag cctctgtttg tatcccgccg aacagacatt 300
tccatacctg ttcttttagcg ccgacatggc ctcgagggga cttcttga 348

<210> 40847
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-B8

<400> 40847

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cctggaaggg atggaaagat ggcaggtctg gttcctgttc tgtatgtgag ttcattgataa 120
cagccatgtg tatcgtttcc cacacttggt gaagctgttt ggagttcatg ggcttaacaa 180
aaaggcacac tggaatgctc ccgagagatc ttgcgataaa ctctgccccg tcgtataggc 240
acgtggcctt gtggaagcag gtcatatcca gtcattctgg ggttcgtatg atgctgcagt 300

gctgttcctg ggaaagattt acgtgttgat ttg

333

<210> 40848
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-C1

<400> 40848

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catcagtggg ctaccacac aactacgggt tcattccacg aacattgtgt gaagacggag 120
atccaatgga tgtgctgggt ttgatgcagg aaccgggtgat acctggctgt tttcttcggg 180
caagggccat cggccttatg cccatgattg atcagggtga gaaagatgat aagataattg 240
cagtttgtat tgatgacctt gagtaccgcc acttaaccga tctcaaggag ctttctccgc 300
accgccttaa tgaaatccgt cgcttctttg aagactacaa gaagaaccga agg 353

<210> 40849
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-C11

<400> 40849

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gctgcgccac gctcgccggc gaccaccaga tgcgcgccgt cgtcgccggc gtgctgccgg 120
agacgaaata ctggagggag gatgggatcg tgagcccagt gaaaaaccag ggccactgtg 180
gatcatgctg gaccttcagc actactgggt cgcttgaggc tgcatatacc caggcaactg 240
gcaaggccat actgtctttc tgagcaacag ctttgtgact gcggttttgc attcaacaat 300
tttcggatgt aagggggggc ctttcatccc aggcctttga atacatcaaa gacaatgggtg 360
gtctttgaca ctgtggaggt gctaccctta ccaggggtca acgggatctt ggcagtcaag 420
gcttataatg ttggagtaag gtttga 447

<210> 40850
<211> 337

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-032-Q1-K1-C12
 <400> 40850
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 ctctgtcgcc gtcgtcgccg gcgagggatt cttccaggag aagttcgaag attgctggga 120
 aagtcggtgg gtcaagtcct agtggaaaaa ggacgataac atggctggtg aatggaacca 180
 cacctggggg aaatggaatg gagatgcaga ggacaaaggt attcaaacct ccgaggacta 240
 caggttctat agcatttcag ctgaataccc tgaattcagc aacaaggata agaccctggt 300
 gctgcagttc tcttgggaagc acaagcagaa tcttgac 337

<210> 40851
 <211> 342
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-032-Q1-K1-C2
 <400> 40851
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 caacttctcc aaatccaaca acagcatcca catctcaatg tccaacagct gattaagcag 120
 caacaatttc tgaagcagtt tcagcagcag caaccgctac aatctcctcg tgttttagca 180
 tctggttcac agaaatctgc gaatcttaca ggctcgcagc cgggtacacc attgtcaggt 240
 ggaactatga ctggtggaag tggaagtcag ggagctgaag gaactagcca acttcttggg 300
 aaaaggaaaa tacaagatct ggttgacag gtagatccct tt 342

<210> 40852
 <211> 336
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-032-Q1-K1-C3
 <400> 40852
 gagagatacc cgatcgccac cgccgaccgg actcccctca aaggcggcca cagcacagcg 60
 agcatgggag accggcatca gcatgggcct ggcagcggcg tggaggaccc ggcgacgctg 120

ctgcggcggg tgcagacccg cgcgcccaac tcgacgcagg tggtaggggt cctgacgctg 180
ctcgtctctg gcgcgctgct gctgctgctg acgggggtga cgctgacggg cgccgtgggt 240
gcgctcgtct tcttggggcc catcgcgctg ctcaccagcc ccatctgggt gcccgctgcc 300
gtcgtgatct ccgccatcgt cgcgcgcgct ctctcc 336

<210> 40853
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-C5

<400> 40853

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ccagtcgctc ggcaagacca gcatcatcac ccgcttcctg tacgataagt tcgacaacac 120
ttaccaggct acaattggta ttgatttcct gtcaaagaca atgtaccttg aagatagaac 180
tgtgagactc caactctggg atacagctgg tcaggaaagg ttcaggagtt taattccaag 240
ctatatcaga gactcttcag ttgctgtcat tgtattcgat gttgcaagca ggcagctctt 300
cttaaataca tccaagtgga tagatgaagt tcgcactgag ag 342

<210> 40854
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-C6

<400> 40854

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gcggaaaaga tcacaccatt ctattgatgc tttcatctgg agttcaccgt tatagattca 120
ttgtagatgg agaaagaaga tttataacctg accttccttg cgaaactaac aatgtgggtc 180
agattttgaa cctagtagat gtccatgact tcgttcctga cagcgtggaa agtgtatctg 240
agctcatggc ccttcctcc ccggactcca gctacggttt ccatgttccc ggcgaaaagg 300
agttctccaa ggagccttct cagctgccgg cccacttct taacccccct tttttt 357

<210> 40855
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-A7

<400> 40855

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 cggcaatggc aagacagaga ggacgaaggc tgtgcaggag gcatgggcat cggcgtgcgg 120
 cggcactggg aagcagacaa tcctcatacc caagggcgac ttccctgtcg gacaactcaa 180
 cttcacaggc ccttgcaagg gcgacgtgac catccacgtg gatggcaatc tgctggcgac 240
 cacggaccta agccagtaca aggaacatgg taattggatc gagattctac gcgtggataa 300
 cctggtcatc accggcaagg gaaaccttga cgggcagggc ccaagccgtt gtttgggggg 360
 ggggt 364

<210> 40856
 <211> 438
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-031-Q1-K1-G1

<400> 40856

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 ggcggcgccg tgtccgggag cgggtacagg gactaccgcc tcgggggacta ctccggctgg 120
 ctgcaggcgc ggatcgccga gccggagacg tggcggcgcg tcgagagctg cctctctgag 180
 gcgcgcgtgt gcggcgcccg ggaattctac aggcaacacc tctcgccaat ccagtccggt 240
 tgctgcaagc cgccgacgtg gtgcaggttc cggtacgtga acgccacgtt ctgggaggca 300
 ccgagatcgg ggctgtctgc ggcggcggcc agcgacggtg actgccgggc atggagcaac 360
 gaccagcagg tgctttgctt cgagtgcgac acgtgcatag gccgcgtgct ggagaccgnc 420
 aagaagaagt ggaagaca 438

<210> 40857
 <211> 342
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-G4

<400> 40857

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gcgcccgcgc tgcggaccat ccccgacgaa gcccgcggcc ccggaaacaa catccacgag 180

gcgtgcagca agacgtgtt cccaaggtg tgcctgcacg cgtcaagga caaccccgag 240

tgccaggcgg tggcggtcac gccgcgcgcg ctggccgagc tgctcgtgta cgtgtcggcc 300

gaggtgggca tgaccgttgc cgcgttcgcg caccacgagc tc 342

<210> 40858

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-G8

<400> 40858

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tagaatagtt gcttcttctt gtctgacagt gaatttgatt ttgtatggat gtgacatata 120

tatgcctgac caattgtcat tatttgctat tcatatatgt tactgggtgt atttaatagc 180

tctcaattta tgcagttatg tttgcagttg 210

<210> 40859

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-H1

<400> 40859

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cgcgtcgctc gtcgagatgt ccgagaactg ccgctcgctc tccaacatga tctgatcgat 120

ctccttctcc acggacgaca acagagagcc gggcggtttg ggccctcgca tcgtttgtcg 180

ccgctgctaa cgttcgcatg cccatgcccg cgagcgcgct ctgcgcgcac aataactgat 240

gagttaagtt tgttttgctt tgaccatctc acatcggtat ttctgtaga gatgcgttaa 300
 tttggtctcg gaaacgggga ggccaattga ggtggaatat ttataattca agaaacacag 360
 ttttggttct agaagaggat cgtcgatcat gctgctctac tcgatctoct cttctcgta 420
 cgaatttaat taaccgtttt gtatctat 448

<210> 40860
 <211> 398
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-031-Q1-K1-H3

<400> 40860

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 tcgacctcgc cggcgggggg cccgggggccc ccccgacgcc ggtcttctcc ttcccgacct 180
 ccgatgcgct cttegactgc gcgtgggtcc agtcccacga ctccctctgc gccgccgtct 240
 ccggggacgg ctccgtgcgc cttttcgacg ccgctcttcc gccggcgag aaccccgctgc 300
 ggctcctncc ggagcacgca cgggaggtgc acggcctcga ctggaacccc gtccgcggga 360
 cgccttcatt ttgccttct gggacgacac gctcaagc 398

<210> 40861
 <211> 341
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-H5

<400> 40861

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 gagatgtcct agaactgccg cttgctctac aacatgatct gatcgatctt cttcttcacg 120
 gacgactaca gagagccggg cgttttgggc cctctcatcg tttgtctgcg ctgctaactg 180
 tcgcatgccc atgcccgcga gcgcgctctt gcgcgacaat aactgatgag tcaaattcgg 240
 cttgcttttg accatctgac atctgttatc tctgtaaga gatgctttta atttgggctc 300
 tgaaacggtg atggcgaatt gacgtggaat atttattatt c 341

<210> 40862
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-A1

<400> 40862

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cccttctcct cctctccctc ctgctctccg ccgcggccag tgcgcggacc gtgggcgaca 120
ccgtgcagga cgcgtgcagc aagaccagc tccccaagat ctgctggac agcctcgccg 180
ccaagccgga gagccagaag ggcagccgc gcaagctggc ggagctgttc gtgaacatcg 240
cggccgagaa gggatccggg atggccacct tctgtcaccg caagtacagc gacaaggagg 300
acagcgacat attcaagtgc tacgacagct gctccgacga cgtggagga 349

<210> 40863
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-A10

<400> 40863

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ttcacagcgt ccaccatgag tacgccacac cctgtggttt aacatcggaa tatgccacc 120
cagctgaaat tttgttctg ggattcgcca cagttgatgg tctgtctctt actggccctc 180
atctcttcac cctgtggctg tggatggtgt ttaaggtttt ggatacagtt gaatgttcac 240
aagtggctat caactttcca tggagcccat caaattttct gg 282

<210> 40864
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-A11

<400> 40864

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cgagccatgc ggtacccggc tgtgtcggcg ctctgttgtct cgcgccatgc agccttctcc 120
 ggcgtgatcg tccttgccgt cgtccactcg gcgtacgacg acgccatgtc gcggacgcgg 180
 acgctgctgg gccacaacct ggatccgacg ccgtggcacc cgttcccgca cgacaagggc 240
 cggccgccgg cgctcggggc gctgcggtac gcgccctcca tagcctgcct gctcgcggta 300

<210> 40865
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-A2

<400> 40865

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 tgtcctattc ttgtttctcc tctcgtcgc agcagaggtg ggaaccatcg atgccaaaat 180
 gggagtagcc atgcccatgc atgccttgat aatggagaaa gcgaaacagc aggagaagga 240
 gaagaaggag gagaaaagca cggagaagga agagagtcaa tgcttatcgc cgagtctcca 300
 gttcgagggc ttctgcttca acagcgacag atgcgccgta ggttggtgcc ccaaaaattt 360
 tttttggggt 370

<210> 40866
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-032-Q1-K1-A3

<400> 40866

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 ttctcttttc gtgtcgaggc tggccaggtc tagccatgcc ctccccgtg ccgccgcgcg 180
 ggccatctct caggcgccca ggccccagca catcgcctct cctatattct ccggccttgg 240
 agcagcggct cgtgatttca gctcaagggc tctatggaag ggagcattcg tcgatgcctt 300

cctggctaga ataaagaaga acagagaaaa catgaatggg aagaagattn tgggttcctt 360
 ttttccccgg ggggtttttt taa 383

<210> 40867
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-032-Q1-K1-A4

<400> 40867

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 gtttcagcac caaagtatgt tgagtacttg atggattgga tcgaagctca gcttgatgac 120
 gaatccatct tccctcagaa actcggaacc ccttttccac aaaatttcaa ggaagttgtg 180
 aagacaatct ttaagcgact tttccgtgtt tatgctcata tttaccactc acattttcaa 240
 aagattgtca gccttaagga ggaagcacat cttaacactt gcttcaagca ttttacattg 300
 ttcacttggg aattcacgtt gattgacaag gctgagcttg ccaccncaa accccttttt 360
 ttttttttaa aaaatttttt ttt 383

<210> 40868
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-F4

<400> 40868

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 ttggtcggag aacctgagag gaaggactaa ggagtcgaag atgactgcgg cgggtgctgtc 120
 cgtgcgcacg acgacgacgt cgctgctagc agcagtcac cgtgcctct gcacgtctc 180
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 cacctgcatg acgggcccgt acccgagct gtgcgtg 277

<210> 40869
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-A6

<400> 40869

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cattgtgacc accgatgtgg cgcaggcggc gaggggaatgc gagaaggaca gcgagcgatt 180
ccttggggca tgcattggcg cggaacaactg cgccaactg tgccgcggtg agggcttctc 240
cggcggcagg tgcagcacct tccgcggccg ctgcatctgc actaagccgt gctaaattaa 300
cctactcccg gcagttcgat ggtggacgtt tattctatctt tttttttttg gggggggggg 360
ccccccctt tttttttttt 380

<210> 40870

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-B4

<400> 40870

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gttttttttt tttttttttt atattttcct ttttttgtgt taaattaatc cgaaggctcc 120
aggcctgggg gaaccctatc gctaattccc ttaacggtag tctccgctac catacattcc 180
atgaaacca aagactttga tctctcataa agggccaccg aggtcctatt agttacac 238

<210> 40871

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-B5

<400> 40871

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caaaatggca ttggaaactt gggcttcatg ggtgaaagag agaattgatt taaggcgaac 180
acatgtattc ttccgtacat atgaaccgtc tcattggagt ggcttaaata aaaagggtgtg 240

tgaagtaaca caacaaccta ccgctgaggc caatggaaat gacaggagag aatttgggga 300
 tataacttgct ggtgttgtgg caaatatgaa tggctcctgtc acaagactaa atgtgacttt 360
 gatggggccc ttttaagtgg tgcttatatt ggactttgga g 401

<210> 40872
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-C1

<400> 40872

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 aactatcaag gtgaccaacg tgctctctc ggcgaccgag gagaacatga aggagttctt 180
 ctcttctctc ggcgagatcg agtacgtcga gatgcgaatg gactcggaga cgtttcaggt 240
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 aagcatgtgg tggcaatggt tccgtgaaca t 331

<210> 40873
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-C2

<400> 40873

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 gcggagcgcg cagcgcagtg cgttagggac ggcgccggcg ccaccgcctg cgccgtgacc 180
 gacaccgtcg gagccgcggc cgacagcgcg cagctgcagg agcaccgcgc cgccggcacc 240
 gttcagcagg ctgctgagca ggtggcgcag acggcgggcg gcgcggtggc agccgtcaag 300
 gacacggtgg cgggcg 316

<210> 40874
 <211> 63

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-031-Q1-K1-C3
 <400> 40874
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 gat 63

<210> 40875
 <211> 352
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-031-Q1-K1-D1
 <400> 40875
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 cggcgtcgtc cctggcgccc aagatcggcc cgctcgggct ctccccgaag aagatcggct 180
 aggacatcgc caaggagacg gccaaaggact ggaacggcct gcgcgtcacc gtcaagctca 240
 ccgtccagaa ccggcaggtc aaggactccg tcgtgccttc cgcgcgccgcg ctcgatcatca 300
 aggcgtctca cgagcccgac agggaccgga tgaaggtcaa gaacatcatg ca 352

<210> 40876
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-031-Q1-K1-D2
 <400> 40876
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 caaggtgtga aggttgaatc ctacgcagtt ccttcagccc caactccaga tgttgctgaa 120
 gcacaggccc cagctgctga ggaggaggac gatgatgatg ttgacctttt tggtaggag 180
 accgaagatg agaagaaggc tgctgaagag cgtgctgcag ctgccaaggc ttctggcaag 240
 aagaaagaat ctgggaagtc atcagtttta cttgatgtga agccatggga cgatgagact 300
 gacatggcca agcttgagga agctgttagg agtgtccaga tgggaaggct gctctggggc 360

gcattcaagc tttgt

375

<210> 40877
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-D3

<400> 40877

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gctcatcccg tcggagaatt tcacgtcggg gtcagtgatg caggcagtgg gttccgtcat 120
gaccaacaag tacagcgagg ggtaccctgg cgcaagatac tacgggggaa atgagtttat 180
tgatatggca gagtccttgt gtcagaaacg tgctttggag gctttccgtt tggaccggc 240
gaaatgggga gtgaatgtgc aacctctatc cggttcgccc gtcaacttcc atgtatacac 300
tgactcttg aagccacatg ataggatcat ggctttggat ctttctcacg gtggacatct 360
ttctcatggt ttccagactg acactaagaa gatatctgca actcaatatt ttttgagaca 420
atgccttaca gatt 434

<210> 40878
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-D4

<400> 40878

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gcagctcctt gccccggggc tccggcggct cggctctgggc accggcgccg ccggtgaggt 120
gggcccggcc gccgcggcgg cggggatgag ggcgtaccac gagcgggtgg tggaccacta 180
caacaacccg cggaacgtcg gttccttcga caaggaggac cccaacgtcg gtactgggct 240
ggtcggcgcg ccggcctgcg gcgacgtcat gaagttgcag atccgcgtcg acgaggactc 300
cggtaaaatc gtcgacgctt gcttcaagac ctatggctgc ggcttcgcca tagcgtcctc 360
gtccgtcgct actgaatggg tgaggggata accaatggat gaaggtctga caatcaagaa 420
tactgagatt 430

<210> 40879
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-D5

<400> 40879

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 ccttttcctc cgacatccac aaggggggag gggaaaacac gtacattcac ccggcgga 120
 taatggcctc ggttcgggt cggcgacga cgaccgccgc cgtcactcta tgcctatgcg 180
 tcgtcctctc ctgtgccgag gctgacgacc cgaacctccc cgactacgtc atccagggcc 240
 gcgtgtactg cgacacctgc cgcgccgggt tcgtgaccaa cgtcaccgag tacatcgagg 300
 gcgccaaggt gaggctggag tgcaagcact tcggcaccgg caagctcgag cgcgccatcg 360
 acgggggtcac cgacgcgacc ggcacctaca cgatcgagct caaga 405

<210> 40880
 <211> 404
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-031-Q1-K1-E2

<400> 40880

cacgacaaga tggcgtgcac aaacaatgcg atgagagcct tgttcctcct ggtcctcttc 60
 tgcacgtgac atggtgagaa ggaagagtca aagggcacgc atgcgaaagc gtccaggcct 120
 ggtgggtcct tcgacatcac caagttgggc gcctccggca atggcaagac agacagcacg 180
 aaggctgtgc aggaggcatg ggcacggcgc tgcggcggca ctgggaagca gacaatcctc 240
 atacccaagg gtgacttctc tgcggacaa ctcaacttca caggcccttg caaggcgac 300
 gtgaccatnc aggtggattg caatctgctg gcgaccacgg acctaagcca gtacaaggac 360
 catggtaatt ggatcgagat tctacgtgtg gataacctgg tcat 404

<210> 40881
 <211> 376
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-E3

<400> 40881

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtgggcg agaacatccg 60
gaaggttggc gaggcagaga aaaaccttgg tgcaggtgat gtcaatgtct atgcacagat 120
gattgatgat gctgagggcc tggacaagat tgagaacctg cagagccatg acaacaccga 180
gatatatgag aaggctgtga agatgctgga atcctactgg ctggaggagg aagatgatgc 240
catgccctca ggcgacaatc cccagaatgg cttcaacttt gggaaccagc cctctgtttc 300
atcatgtgga ttcaactttg gctgaagatg cccattttgga atggccgctg tgccattatg 360
ccttggttag tgctct 376

<210> 40882

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-E4

<400> 40882

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agcgccacaa tggcataggg gagctccttg agatccttgg aagcatcatt aatggctttg 120
ccttgccaat gaaggaggag cacaagctat tccttgcccg tgctctcatc cccctgcata 180
agcccaaatc tggtgcatc taccatcagc agctgtccta ttgtattgtt cagttcgttg 240
agaaggacta caaattagca gatactgcga ttaggggtct gctcaaatac tggccagtca 300
caaactgtca gaaagaggtg ttgtttctgg gggagcttga agaagtgtc gaggcaacac 360

<210> 40883

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-B3

<400> 40883

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gttgaagagg ccaaagagtt ctaccgctg tttggccttg gtgccaatgt ggcctcatc 120
 ttctctgggc gcacggtgaa atatttctca aacatgagga agaatttggg tcctggagtg 180
 gatggttggg caatttcgtt gaaggccatg atgagcatag tggttgtact gggctctgtc 240
 atcaccggta tctattgggg agtgaacaag tttgttattg ataactcatc tgtgcccgtg 300
 gttgagcgga ataagaatga ctagccaaag ctcaacatgg gtgaaagcat gaaaggctct 360
 gtgtcatctc ggtatgtgag ggattttgct tcattgggtg gtgcttatgg a 411

<210> 40884
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-F3

<400> 40884

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 atgacaaagc tctctggcat ctctgaaatc atccccgaga tggagatctg cgattttgac 120
 tttgaaccct gtggctactc catgaatgcc atccatggct ctgcattctt cacaatccat 180
 gtgacgcccg aggacggttt cagctatgcc agttatgacg ttatgggctt ggatgccact 240
 gctctgtctt atggtgacct tgtcaagagg gtccttcggt gctttggccc ctcgagatta 300
 tccgttgccg ggaccatctg tggggggcgt agccatgccg ggacatgggg aaaggcactt 360
 ggtg 364

<210> 40885
 <211> 148
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-F4

<400> 40885

atcaaagcgc tgcggcaaac gcatggaatg tgcttgcta gctagctaata tgttgttttt 60
 tttttctttt acttttcttc atacctgtct ctctctctcg gttgtttaat ttttcttcat 120
 gcatgtaata taatgtgata tacccaat 148

<210> 40886

<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-F5

<400> 40886

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ttcacatgcg atgctgccga gaccggagag cacagtacac gacgggcact gacggcgcac 120
cgggattgaa gcagtcctcc actaccactg ccaactccaga tctgccc aaa acaccctgac 180
ggacggaggg tatcttttca acaagtgcaa ggcgccctcg gctaattcca aggtgttttt 240
aggtcctcat gttggccatg accgatgcat cgcgcgggtc gcctgcgagt gcgctttgcg 300
ttgatccaat cacaagcagc ggggacaatc atgcatgcc cgggccccgt cgtcccttct 360
tttgaaaatc tggccaaatc ttgatcatgc ttttcgcaaa taatggtcgg tggaatctt 419

<210> 40887
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-F7

<400> 40887

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atcgagattt gaagccagag aattttctct tcacaacatg agatgaaagc gtccttatga 120
agttgattga ctttggctctg tcataatttta ttagaccaga tgaaaggctc aatgattttg 180
gtggaagtgc ttattatggt gctccagagg ttctacacag atcatacagt atggaagcag 240
acattttgga gtataagagt tataacatac attctgttct gaggcattct ggccattttg 300
gcaaggacat aatttgggtt cttccgggtc gtattgaggt ctttttccaa ttttga 356

<210> 40888
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-G1

<400> 40888

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 cttgacgggc agggcccagc cgtgtggagc aagaactcct gcaccaagaa gtatgactgc 120
 aagatccttc ccaactcgct ggtgatggac ttcgtgaaca acggggaggt gtccggggtc 180
 acgtgctca actccaagtt cttccacatg aacatgtacc agtgcaagaa catgctgac 240
 aaggacgtga ccgtgacggc gcccggggac agccccaaca cggatggcat ccacatgggc 300
 gactcatgcg ggatcaccat taccaacacc ggcattggcg ttggcgacga ctgcattttc 360
 atcggccctg ggacct 376

<210> 40889
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-G2

<400> 40889

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 gcacacaacg ctctccgggt gtttttcac ctagccgtgg tatgtgccgt atgcacagcg 120
 aaaaggacag gagccaacaa ggaagaatcg gcggcagccc ccggtggcgc tgctggaggc 180
 agcggcggga cgttcgacat ctccaagctc ggcgcgacca gcgacggcaa gacggactgc 240
 acaaaggcag gccaggacgc gtggacgtca gcgtgcgaag cgaccggaag cgccacgggtg 300
 gtgatcccca agggcgacta cctggtcggg cctctcaact tcacttggcc atgccagggg 360
 agcaacaatc gcattcaact ggatgggaac ct 392

<210> 40890
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-G4

<400> 40890

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 ctcgtactgg atcaaggacg gcaaggtctt gggcgccctc ctggaggggc ggtcaccgga 120
 cgagaacaag gccattgcca aggtggcgaa aaccagccg ccggtcgcta acctcgagga 180

gctcaagaag gatggcctcc agttcgccag caagatctga gacgctccc ttccatgtaa 240
 atttccgtgt catcgtgaag gttcttctgg agctctgggc atgattgaga aatgttctgc 300
 ttgctacaga tattatacta catacgtgac tacgtgatat attctgtttt cttgatggga 360
 tatctgtacg tgggtacact taca 384

<210> 40891

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-G5

<400> 40891

ccacgcgtcc ggggacgcgt gggacgtggc caaccatcaa ttcaatatgg tgggtggtctt 60
 cttgcaggac ctgtgcattc tgttgggcct caagtacctc gcagcggctc tgattctgat 120
 agatggcagc aaaagggctc catgccttcc cctgtcacac ccatgcaaac aatgcacaaa 180
 gcagagagga agtatgttgt tgggaaagt tctgatgagg aggaggcgaa acagaggcag 240
 ttgaaaggca ttcttaacaa gctgactcca caaaactttg aaaaactgtt tgaacaagtt 300
 aaggaagtca acattgacag tgtagcaact cttactgggg tcatttcaca aatatttgac 360
 aaagctttga tggaaccaac tttttgggaa atgtatgct 399

<210> 40892

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-H2

<400> 40892

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 tggtagcaag ggagagatga tactcgacgc cacaagcaac atggcagcac tagaagttgg 120
 cggaggcccc tggttcaatg ggtggaaagg gacaactgtt gtgaacgagg ttgtaaataa 180
 cattgtgggc acgccagtcg atgtagagag cctcctccca atcccatttc ttaagcccc 240
 aggctatag gatcaccaac gaatgtcaca atgaagaagt atcacggata tcaatgttga 300
 tcatacaaga aaactgtgcc caggtcaata ataattcatg atttttactt gttttttact 360

<210> 40893
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-H3

<400> 40893

cttcagtgcac ttcaagatga ttgacatcaa tggatatgca tgctttctga cgagaactgg 60
ctacaccggc gaagatgggt tggagatctc tgttccgtca gagaatgcag tggatcttgc 120
agaggccatc ctagagagat cggaaggcaa ggtgctggctg accggcttgg gcgcccgtga 180
cagtctccga ctggaggcag gcctgtgcct gtacggcaac gacatggagc agcacatcac 240
gccggtggaa gccggcctct catgggcgat cggcaagagg aggagggcag aaggcggttt 300
cctgggcgca gacgtgatcc tgaagcagct tcaagaaggg ccaaagatca agcgcggggg 360
catggtcacg caaggggccg ccgcgc 386

<210> 40894
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-H5

<400> 40894

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tttgcgaaag cgctggatga ggctaccgag aatgccatgc gacgagtgc tctcctgtgc 120
agacaaggaa tcacttgccg tcggaacaca gttgcttgtc ttaggtcgtg aatatactgg 180
ccttgctatt tggatgtaca acttactgac tcgcagttgg ttcccatgca cttcaatgaa 240
tctgccccgc ttcctttttg tctcggaag ctttaagtgc attgctattg ttgctggtgg 300
atgtgataag aatggaccag tgctga 326

<210> 40895
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-H6

<400> 40895

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cgccgccagc ctctcctgcc cccgttttcg ttgcggtttc ttcattagcg cgaacaaagt 120
tttgtgccgg tctatcgccc gccgctttcc tcccctatcc atcaagactg caataactgt 180
cgctacctat gcttctcacc tgtgattttt ggacacaata tgtaaggtc cattcaattc 240
taatgagacg cctgatgagg ctactagcaa acaacaccat gtgttcggat tgcattgggt 300
tattgatgtc ttgtgaatga ataataaaa tttttttt 338

<210> 40896

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-A1

<400> 40896

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caggtcaaaa tctcaaaaat caccagcaat acagaatgag cagagtacac ctgctaaccc 120
gccacagca tctctgatt ggtctcagtt ccaggcatac tataatgctg ctgggacagc 180
tccagtgacc ccaccttttt ttcattccatc tgtagctcca agccatcagg ggcaccata 240
tatgtgggggt ccacagatga tgtctcctta tgggacacca ccaccatag cagcaatgta 300
tgcacaagggt tcaccatatt aacaggcacc aatgccaccg gggtcacacc catacaggcc 360
ttaacctatg cagttaccaa acgggacagt tcaaacttca acatttggtg cttgtgggac 420
agcgacagat taattaaatt aaaaataagc 450

<210> 40897

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-A2

<400> 40897

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ggaacgccac cgccagggag gccgtcttct ggtggggcaa ggaggaggcc atctacgaca 120
aggacaagga gaagtgcaag tacggcaagg tcttcaagga gtgcggccac ttcgcgtca 180
tggtcggcaa gaggagcacc aaggtcggct gcgcacgagc cgagtgcctc aagggcggcg 240
tcttcatcac ctgcaactac tatgcaacgg acctggacaa gaacaagaac aaaacaccaa 300
acgataactg actctatcca cccatctgtt cgtttctatg tacgtacgta cgtagtagcg 360
ctgacttatt tactgagtga tgattggatt gttaattaac tactactgaa gcaattgcct 420
gattccgagg ttggagatga tga 443

<210> 40898
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-A4

<400> 40898

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gtctgatgat tctttggcca atgttcatt tctcatcctt ggcaacaaga ttgatatccc 120
atatgctgcc tctgaagagg agctacggta tcacctaggc cttagcaact tcacaaccgg 180
gaagggcaag gtcaaccttg gcgactccaa tgtccgtcca cttgaggctc tcatgtgcag 240
tgttgttcgc aagatgggct acggtgatgg tttcaagtgg gtctcccagt acatcaagta 300
tggccctcgc cgaagcgcat gctcagcccg gcgaattttt ttgccttggt cgttccggtt 360
gttccgtgac gagaacgaac gatggtcgct aggaaaagat catggagggt atgaagagga 420
aaaacagtgc ttaacattgt tgaacat 447

<210> 40899
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-A6

<400> 40899

ctacaagatg gcgtgcacaa acaatgcgat gagagccttg ttcctcctgg acctcttggg 60
gatcgagcat ggtgagaagg aagagtcaaa gggcatccat gcgaaagcgt tcgggcctgg 120

tgggtccttc tacatcacca agctggggcg ctcgggaaat ggcaagacag acagcaccaa 180
 ggctgtgcag gaggcattgg cataactcgtg cggcggtact ggtaagcaga caatcctcat 240
 acccaagggc gacttccttg tcggacaact catctttaca ggcccttgca agggcgacgt 300
 gaccatccag ctggattgca atctcgatgc gaccacgggt cttaactcag tcaatggacc 360
 at 362

<210> 40900
 <211> 371
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-031-Q1-K1-B2

<400> 40900

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 acaaccctgg cgggtgctcct cactaccagc aaggtgctgc tcttggtac caaggtggac 120
 ctccggggta tcaaggtggt taccaaggga acccaggccc tgctaccaaa ggtggtaaca 180
 ctggttatca aggtggcaac ccaccacctc cctaccaagg aagcaacca ccacctcctt 240
 accagggagg cagcccacca gggccaccac ctccctaccg aggaggcagc ccaccagggc 300
 caccacctnc ctaccgagga ggcaaccca acgtaccgtc atattcgggt ggtggcaatc 360
 ctggctaccc t 371

<210> 40901
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-F3

<400> 40901

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 agtttttagca taaaccataa gaagacatgt atcaatacca gtggatcatg tcttccacga 120
 cacaaataat taacaaaaaa aagggaattt tcttgcaaag ggtaaaagaa ccctctattc 180
 ccttcaagca agggtcgctt ctgcactctt cccaccctca ccaccattag cagaagatac 240
 attgttggcc tctgcctcag caactgcac catttctct gcaatggcgt caacttctcc 300

aagcgggcca acctgcttct cctctggaag tggcttcaca aatccgtcaa caaaacaagt 360
gccccataa atacct 376

<210> 40902
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D8

<400> 40902

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tgcataacgc tgtcacttgc atcgggatgg aaacaaacat accggtcatc atagatgaag 120
ctatcaccaa attggatgag gatttcttct ggttgggtgg cggagaattt gacctcaagc 180
tcggaatgcg aacctcacia ttcttaagtg tctttagtcc attcgtggtg aaatgcagct 240
gatgatagcc gtgcagccta aaagaagctt ctgattcatt tatttctacc gagcctccat 300
gcatccatca catggaggta caccacaata ctattgggtt ttgcttggat ctggtggtgg 360
gattgtattt ttttattgga caggctt 387

<210> 40903
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D9

<400> 40903

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aagggacaag gatgatggca agcataggga tagagataga gatagggaga gagacaggga 180
taaggatagc aagtacagag accgggataa ggagccagaa cgtgaacgta accgtgaccg 240
tgaccgtgac cggggcaaag atcgggagcg ggaaccacat cggcagcgtg acaaggaccg 300
tatcataaat cgtgataagg aagcagatcg tgataaggaa aggggaagcgg agggacaagg 360
ga 362

<210> 40904
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-E1

<400> 40904

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accttccagg ttggcaaggg atccaagcct ggccacctga tctcaccce caatgttgca 180
accatatcca atgtggagat caaagagcac ggtggcaatg acttctcctt tacgtcaag 240
gagggaccga ccggcacctg gacgctcgac accaaggcct tgetcaaata cccctttgc 300
atctgctttg ctgtcaagtc tgggtggtac tgcacgcgcg acgatgtcat ccccgccgat 360
tttaagggcg ggaccacctt caaaaacaca c 391

<210> 40905
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-E11

<400> 40905

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cccttccgcg gcgcggcg gctcccatcc tcggcgctg aagctatata tctgctcggc 120
gtccatggtc acaggattat atggttgctc atgtcctcgc gccgaagcaa gtgatgattt 180
agattaaaga aatgtagaac ctgggacatg ctctcttcag ttgacacatg gtcacaagat 240
ttgcaacaca tatatagttt gcacattctg cctgctcaca tggactcaga agcaacaata 300
catcatcaac atcgtgtctg caggactgca cattagcatt catcccgctg gctgttagat 360
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aaattccata ctctatattt tctttc 446

<210> 40906
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-E3

<400> 40906

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ggtgagccgg cacacgatcc aggtgtaccc tatgtcgtgg acggcgggtga tgatgacgtt 180
cgacaacgcg ggcattgtga gcatccggtc caacatctgg gagaggcagt acctcggcga 240
gcagctgtac gtgagcgtca tctcgccgga ggggtcgtc atggacgaag acaacatgcc 300
ggagaccagc cttctctgcg gcaaggctgt cggactgcc atgccggcgg gctacccttt 360
cgtctagagc atgcatcttg ggttgccctt tctttctttc atcacacggg cgcacggggg 420
ctggatacac aatttaaaag gaacgtg 447

<210> 40907

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-E4

<400> 40907

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tgggagaaga tctacacctg gctcgccaag cccggggccg gggtcattgat catggacccc 120
tacggcgcca ggatcagctc catcccgag gatgcgacgc cgtttccgca ccggcagggc 180
gtgctgttca acatccagta cgtcagctac tggttcggcg agggcgacgg ggcggcgccg 240
actcagtga gcaaggacat gtacgcgttc atggagccgt acgttagcaa gaaccctaag 300
caggcgtacg ccaactacag ggacc 325

<210> 40908

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-E5

<400> 40908

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aggttctccg atggccgaga agtcacccag ctccgcgccg tagggtgggt ctggtgggaa 120
tgaatcattc gataatcttg taattcaagc tccacagctt atgagggagg attacatata 180
gaatgctgtg aagcttcttt cacatccgaa agtgaagggt tcttcagttt ttcacaggcg 240
tttctttctg gaaaagaaag gccttacaag ggaagaaatt gatgaggcct tttgttaaca 300
tcttg 305

<210> 40909
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-E8

<400> 40909

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tgccccgacg ccgagaacat catcttgggc gtcggcgaga agcgggttcaa ggcggacccc 180
ggcaccgccg ccggcctcct ccgcctcgtc ttccacgact gcttcgcaaa cggctgcgac 240
gcgtccatct tgatcgaccc catgtcgaac caggcctccg agaaggaggc gggccccaac 300
atcttcgtca agggctacga cgtgatcgag gagatcaaga cggagctgga gaaggaatgc 360
cccaactggg ggtcggggcg ggacatcatc ttggtgagcg 400

<210> 40910
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-F1

<400> 40910

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gcggtgctat tatgcgccgc ggccggtgcg tcgtgggtgg aggaggcggc gaacccgata 120
cgaatggtgt ctggcgtgga ggcggaggtg gttcgggtga tcggggagtg ccggcgtgcg 180
ttgaagtttg ctaggttcgt gagcaggttc gggaagagtt accaaagcga ggaagagatg 240
aaggagaggt acgagatatt ctgcgagaat ctcatgttca tccgctccca caacaagaag 300

cggttgccct atactctttt tgttaatcat tttgctgatt ggacttggga ggagttcaaa 360
 aaacacaaga cttggaactg cccaaaattg gtctggcact 400

<210> 40911
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-F12

<400> 40911

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 gcatctatat gacccggatg aactcctgac attcgcgttt gacaagatcg gttcaatgcc 120
 aacaaatata atcacaaagg aaaggaaaaa gcaggagact gttgtcctgg ctgagctaga 180
 tcaaagaaca agacggctga gatcactcaa gatggatgga taggggtggaa aatacaagtt 240
 cttgaaagct gtagtcttgg cctattcggg acctgggacc acaacgtatg cttcaacgac 300
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<210> 40912
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D5

<400> 40912

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 aagcccacgt actccacgtt cctgaagctc ctgcaggaca ccaaggtcgc gggcgaggcg 180
 aatcagctcc ggtcggcgac gctactggtc gtccccgaca aacttgccaa gcctctggcg 240
 tcgctgcccg ccgataaggt gcggccggcg gtggagaacc acgtccttct cagttacttc 300
 gaccccatca agctggacga gatgaagaca cgcaccgtca ttcttccac gctgctcttc 360
 gtcaccgaca agaaactcgg cgtcctcaac tacaccaagg gcgacgaccg gcaaattgtac 420
 tttggggctt ccggggcccc ct 442

<210> 40913
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-F2

<400> 40913

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attgaaggag attaccttct attcaatttt gattagggag ggatttaatt ctctcaaadc 120
ctcttcgacg gagacgtaac caagtaagcc ttaagatgtg taggctgtgg ctctctgtgt 180
aactgaacca gaggattgct agcgtctgaa tttttcgttg ttcggagtag taagtttaca 240
gtcaaaaaat ataaaatgta attgttataa ttttcttttt tgttta 286

<210> 40914
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-B7

<400> 40914

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cctggcctgg accgcctgct ggcttatgca gctttcccggt gccgccatcc aaacatgccc 120
gcccttattt tgtcgtcgta ccaatatttc gatgtgattc tgcacccgca tctgccagag 180
tgctgttgca acgttgcatc ctatcctgga aggctggaat gtttatttgg tgctcggcat 240
ctctctgaac tttatgtttc cccggcgtag catgctagtg tttttcaatg gagccattat 300
tgcaattcgc tgtgctaata cgtgccttaa ttactgttac tcgttatttg ctattcggat 360
ggttcatgta acaaatgtgg attgagcaat ctggggggtt caatcaaaaat ccaaccgtga 420
ccttcacccg gaaatgaaaa tagagatggt tttttttcaa caaaacaa 468

<210> 40915
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-B8

<400> 40915

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ccactttgtt caccaggttc tgtatcgtcg gcagcaccct caggtagcag aaccctgaca 120
gccacagatg cagccgccgc cgctgctcct gagcccgaga agcccatga gcgagctgcg 180
gaggctgcac atgccgtcaa gcccgcgcaa ggtagcgtcg tctcctcct cctcgctgc 240
gtcgtctgcc gtatcgctcc ctaagcacgt tggcgaggat cagaagcaaa gaccagctgc 300
gcctgagaac caagccacca tcgctgactc gatagtgtga tccatcagcc atggtggtgg 360
agagactgtg gcatt 375

<210> 40916
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-C10

<400> 40916

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gcggcgcgca cagtccttcg acggccggca ccagcagctg ctgtccacgg ccacggcgcg 120
ggtggcgctg ctggaccgcc gcctgggcct cagcgacaag ttcagcctcg gcacggccgc 180
ggtccgcggc gcggtgcgcg gcgtcaacga gcgctttcag gtcacggagc gcgcctgggg 240
ggccttttcg gcggccggag aggtcgtggc cggcctcctc ta 282

<210> 40917
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-C12

<400> 40917

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aggacgtgac cgtgacggcg cccggggaca gcccacacac ggatggcatc cacatgggcg 120
actcatccgg gatcaccatc accaacaccg tcattggcgt cggcgacgac tgcattctca 180
tcggccccgg gacctccaag gtgaacatca cggcgctgac ctgcggccct ggccacggca 240
tcagcatcgg aagcctaagg cggtaacaagg acgagaagga cgtcacggac atcaacgtca 300

aggattgcac tcttaagaag acgatgttcg gcgtccgcat caaagcgta

349

<210> 40918

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-C2

<400> 40918

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attctatctg ccattgcac acatgcaagt gaagtgaact ctgaatctaa cttgcacagg 120

aaactacata aagcatgctc tattttggag gtacctgagc cagcggttat ccatttcgag 180

agcgagtcct accagagcta cctcaaactt ctccaagctc ttcttcatga taacctatct 240

ttgtcagaaa ctatgaatgt ggagtcacaa attatgctcg tctgtgagaa aatactgcga 300

atgtatctga cctgcgcaga gcatgaactg tctaattggtg tttctggtag gggccaact 360

ttacaacgga tgctctggtg tac 383

<210> 40919

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-030-Q1-K1-C3

<400> 40919

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tggctcatcg gatcaagtcc acccatccca ttccttcata ccgatggaag gcaaaggcaa 120

tgaaaaaatc caaccgaaag caagtgttgc cagccttgca aaagatggac tgggaagatg 180

ccaattgctc tgtgtgcatg gaataccac ataatgctgn gctcatcctc tgttcatccc 240

acgataaggg ctgccggtct tacatgtgtg gaactagcta ccgccactcg aattgcttgg 300

atcatgtcaa gaaagcatac accaaggggg cattgcttga ggaagttcct gcaaatacg 360

ttggcactga tcttgattca gcgccattgt atgcagaaaa aattgaggcc attgac 416

<210> 40920

<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-C4

<400> 40920

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ccagctgtta tattagacaa attgcgtgaa ctatcttgga gtggtgtgcc tccatatatg 120
cgacctaatg tatggcggct tcttttgga tatgcaccgc ctaataaaga tagacgagaa 180
ggtgttctaa caaggaaaag gctggagtac gtggaatgtg tttctcaata ctatgatatt 240
ccagatagtg aacgctcaga tgaagaaatt accatgcttc gccagattgc agttgattgc 300
ccaagaaccg gacctgatgt tacatttttt tagaatcatc aagattcata aatttctttg 360
aacgcatttt tgtatacatg gggctatttg tcacccaaca aggtgggtta ccttc 415

<210> 40921
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-C6

<400> 40921

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tgttcatcta ctgcagaaca ggtcaataat atctttaatt ggaaatgtgc agaggtcgtc 120
tttgattctt gaaaaggctt tcaatgttct acgaagaaac ggtgtcaatg tccagatgat 180
atcgcaaggg gcgtccaagg tgaacatttt cttggtggtc catgacagtg aggcaaaaca 240
gtgtgttcaa gccctccact ccgcgttctt tgagaatggt ttcttggttg aagctgatga 300
gttggatgtt cagcatgatg gctttacatc gcattccaat ggcacaatcc acaggcatta 360
accgaagatt tgatattcat 380

<210> 40922
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-C9

<400> 40922

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caccgtctcc aacggccact tgacgaggca cgaccacgtt atgctgttcg gggccagcga 120
cgccgcgtcc aaggacaggg agatgcaggt caccgtcgcc ttcaaccact tcggcaaggg 180
gctgggtgcag cggatgccgt gctgccgtca cggcttcttc cacgtggtga acaacgacta 240
cacgcactgg ctcatgtacg cca 263

<210> 40923

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D1

<400> 40923

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cgatgaggtc gctagcgcta ctggtcctcc tcagcctgct ggttggttgggt gtggcgcacg 180
cgggtggagtt ggagatggag ttggtgcctg ctgatgcaat tgcgatgact atggatcatg 240
agccgcccac ctctcccgcg acgcgctgga caacctcaag gccaatatct acgggaagggc 300
catggaacag ctgaccgcgg cgatgggcgc c 331

<210> 40924

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D10

<400> 40924

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ccctaccgga acagcaaact tacacaagtc ctacagagtt ctttgggtgc ttactattgc 180
tgattgttct atatactatt tacatgttat cagttatcta atatctttca tctgcaggcg 240
gccatgcaaa aaccttgatg tttgtgcaga tcaaccaga tgtctcatct tattcggaga 300

ctttaagtac tttgaagttt gctgaaaggg tttctggagt ggagctaggt gccaaaggcga 360
 ataaagaaag caaaaatatt agagaattta tggaacaggt gataaattat tgttttcctt 420
 ttgcccgacc cttat 435

<210> 40925
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-030-Q1-K1-D11
 <400> 40925

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 tctaaagttt ggatctttta atggtatata tccaattggt cctagttctt aactgtgttg 180
 cttattccat caggacagca cgtcccaa at gattttgtgt taactagcaa acagtttgag 240
 ataagttatg ttttgcaaga ttgacatatt ggtatatagt ccgtattttt cttgtcttct 300
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<210> 40926
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-030-Q1-K1-D12
 <400> 40926

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 ctcaggtatg aaagtcacca ttcgtcagct ggggccttcc atgatacagc agatgcagca 180
 gccttgcaac gagtgaagg ggactgggga gagcatcaac gagaaggacc gctgcccattg 240
 gtgtaagggt gagaaggctg ttcaggagaa gaaggttctt gaggttcattg ttgagaaggg 300
 aatgcaacac agccagaaga tcacctttcc tggatgaagct gatgaagcgc ctgatatcgt 360
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<210> 40927
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D2

<400> 40927

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gacggacgga cggacgcgc catggcattg gcatgcatgg actggtgaac atctatgcat 180
gcatggacga cgtcacttgc aacgctgttc ccatatagta ctactggtct gctatgaata 240
tctatgcatg catggtaacg gggcgcggtt ttaattatt attattacgt agacattact 300
atgtaaaaat catgtgttcg cggaaagtcg ttctggaatc ttgggatgga a 351

<210> 40928
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D4

<400> 40928

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aggcgtttat ctgaagcagc atttggtgag gctatgcttc aactattgg gtatatttac 120
gtgcggaag cagcaagaga acttgggaaa agtagaattt atatgggtgt accggttata 180
gctgagtggg ttagagacaa aggacaccac attaaatcgc aagttaatgc tgcttcaagg 240
gctatttttc taatacaact ttaagaaagg atgaaaaaga tggaa 285

<210> 40929
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-B6

<400> 40929

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 tacatgatcc ccagacctca gttttttttt ccatcacaac tggtctggga gatagggtgca 180
 tccacatcct ggactggctg gatccatcct ccaggaaatc ctgctatgtg ttgaagaccg 240
 aattttttgt aaactactac tactactacc gtttggaact gcagaccctt ttgttatttg 300
 tggtcacgga tgaaagttga gatccctgga gcaaggtctc atgtggagaa ccccttatt 360
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 ataatggtta cg 432

<210> 40930
 <211> 317
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-029-Q1-K1-H5

<400> 40930

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 gctaataaac agctattgta cactgtagag gcaaaagaaa caaattaacg tggtttccat 180
 tttctttata tgttttgggg atacctgagg agcggtttat atcatacatt tttattgaca 240
 taattcaata gggantgtta tgtgcgatac ttgtcaaaaa aaaataagaa atcatggaga 300
 aacaacggct gtgataa 317

<210> 40931
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-A1

<400> 40931

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 tcattgtgtc caccgatatg gcacaggcaa gggaatgcga gaagtacagg gagcgatttg 180
 ttggggcatg catgatcgca gacaactgcg ccaatgtgtg cctgggtgag ggcttcttgg 240

ccggcaggtg cagcaccttt cggcgccgct tgatgtgcac tatgcagggc taaacaagat 300
 cgctccatcg ctgcgcatgc atcgacaacc tattcttaat aaagggcatt atttcggtct 360
 tattt 365

<210> 40932
 <211> 354
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-030-Q1-K1-A10
 <400> 40932

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 aggagattcg gatttgatta tattaccctg attcgtttaa aaggatgggt tgagctctta 120
 tagtcagtga tggaacacaa ggaggcgggc tgccagcagc cggagggccc aatcctatgc 180
 atcaataact gcggcttctt cggcagtgtc gcgacgatga acatgtgctc caagtgccac 240
 aaggagatga taacgaagca tgagcaggcc cagctggctg cctcctccat cgatagcatt 300
 ggcaatggcg gtgacggcgg gaaaggacct tgaattgctg catctgtaaa tgtg 354

<210> 40933
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-030-Q1-K1-A12
 <400> 40933

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 tgatgaggat gagacaagtg aagaagagga ttcaactcca gaaactacag aggaagagac 120
 agaagaagac gaagacgaag agaaagagaa aaagcccaag accaagacaa taaaggagac 180
 tacttctgag tgggaacttc tgaatgatgt gaaggctgta tggcttcgca gcccaaagga 240
 gggtactgat gaagaatact cgaagtttta ccactcacta gcccaaggact tcggtgatga 300
 caagcctatg gggttgagcc acttcactgc cgaaggagat gttgagttca aagctttgct 360
 ctttatttcc ccgaaagctc cacatg 386

<210> 40934
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-A5

<400> 40934

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caagtccgtg gaggacgagt acgcggcgca ccgggctcgg atgttcaccc ttggctgggt 120
cctgcacccc atcacctacg ggcactaccc ggagacgatg cagaagatcg tcatggggag 180
gctgccaac ttaccttcg agcagtctgc catgggtcaa ggctcagcgg actacgtcgc 240
catcaaccac tacaccacgt actacgccag caacttcgtc aacgccacag agaccaacta 300
ccgcaacgat tggaatgcaa agatttcgta tgagcgagat ggtgtgcca ttggcaaaag 360
ggcgactcgt gactggcttt acgtccgtcc atgggggctc tacaaggctc tgatttgac 420

<210> 40935
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-A6

<400> 40935

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agctccttga agccggcgag cctgaacgcg ttcgacatca tcttcactc cagaggggttc 120
gacctgtcaa gcctgttcga ggtggaccaa gagcagaagg ccagcaactc gcggttcacg 180
accagaaaac cggcgtcggc gatagtgtca aagctggagc agatcgctga gacagagcgc 240
ttcatgggtga agaaacagga cgggctggtg aagctgcatg ggttcaagca agggaggaag 300
gggcagcttg cgatcgactg ccgagatctt cgatgtgaca ccgtgctttc acgtcgttg 359

<210> 40936
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-A8

<400> 40936

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 cgtgaacatc gcaccggtgg aagactacga actgccaccg gaagcgtact cccatgcagg 120
 agcaaggtct ccgggtccgg gaacgccgac gggggaggcc gtgaagaatg cggaggatgt 180
 ggtgagcacc atgctggcca ggggcttcgt gctgagcaag gacgcgctgc ggcgcgcaca 240
 gtccttcgac ggtcggcacc agcagctgct gtccacggtc acggcgcggg tggcgctcgct 300
 tggaccgccg cctgggcctc agcgacaagt tcatgctcgg tacggccgcg gcccgcggcg 360
 cgacgcgcgg cgtc 374

<210> 40937
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-A9

<400> 40937

ccctccctca ctcagccaaa cctgacatca gcctattaca agcgtcagta gagatctttc 60
 agatggccat ggccaagccc ccgcttcaga cggccgcgat catcttcctc gtgctcctcg 120
 cgaccgcgtc gtgcctccac accgtcgacg ccgccgcttt agggttttgc tggggcaagt 180
 gcagcgctcg gtgcgcgcgg gcaagcgcg gcggggcggtg gaccgcgtgc atgagctcat 240
 gcggcctctg ctgcgaggag tgcaactgcg tgccgcgcga cattcatgac tgcccctgct 300
 acagcaacat gttcaccacc ggccccaaga agatgcccaa gtgcccctta gactgagact 360
 gtgaggtcgg ctcacactgc ggcattccatg 390

<210> 40938
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-B1

<400> 40938

ggccactgag gtaaatacaa gtgatagccg tgttgaagtg gactccaaga tctagaaggg 60
 tgttgggggg gagcacaaca caaattctat caaagagctt atcagcaaca cgctctataa 120
 ttataatgac aatcgtttct ttgggaaatt cagatagtaa acaaaaagtg gctattttctt 180

cagaaacgca aggttgcttt acaattgtat tatgagaaaa tatttgatga tgagaaatgg 240
 aggatctggc gaacgacttc atgagtatag ttgcagatag aaaagacaac actgacgatc 300
 aaatggaacc atcaattttg gcacttgatc gcaacaacac atgtgagctt tttttgctga 360
 taatctgatg gcaaaagcaa aatcatgaaa atatgatggc ataatgggta tttctgaagt 420
 tatt 424

<210> 40939
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-B12

<400> 40939

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 cgtggcctca cccgatggc gccgggtcgc tgccagcac cggcctaac cagccgacgg 120
 aggaattcag gaatgtggtg tttggggggc agctcacgga gggggccgac ggctcaaca 180
 agacgaagag gaagacgggc tcctcgccca aggggaagga gacaacagg accgggatat 240
 ccaaggccga gagcgccgcc gccgccgtcg caactgcctc ccgtgatcgt caggctagcc 300
 acatcacctt ttcccaggac gggaccgttc ctaccaggaa ggcaactttc agggctgggg 360
 tggcaaggca acgtgagctt aaccataccg tcgagagtga gggggac 407

<210> 40940
 <211> 300
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-030-Q1-K1-B2

<400> 40940

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 tcgttcaaga aaaataccag cttaccaaca acagcagcag caagcccacc cgttcgacga 120
 catggcccgc ctcggcgccg gcgccgtgtt ggcgctccta gtggcggtcg cggcgngggc 180
 cgcgttcctt gcggtgccgg cctcggcgaa gtcgggggag ctgagcgcgga tggggttgct 240

ggcggcggaag ggcggcagcg ggcggggccc tcataattgc tctggctctg tgggcgattg 300

<210> 40941
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-B4

<400> 40941

aaaaaaaaa aaaaaaaaaa aaaaaaaat attaaaaaa ataaaaaaaaa aaaaaaaaaa 60
aaaaaaaaag ggaaaataaa aaaaaaaggc gaaagctttc ttatgctata atataaaata 120
atatattttt aaaaatgggg tgttgaattt aaataaatca taatatttat tacaattgtc 180
cgtacataaa aaacctttgg ttttacgaaa cttattatta attccaatta tattcccatt 240
ttaaaa 246

<210> 40942
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-B5

<400> 40942

cgcgtccgga agagaagatc gacaagagat tggcggtaat ggactcctcg gagctgcaca 60
tactggcctt gcagaggggtg aagcaggtgg agccggagaa cgcgagcaag atcctcggct 120
gcatcctcct ggaggaaccc gacaaccagg atatgctgca gctcgcctac ggcaacgacg 180
ccgaggtgca cgccaagatc agccacgcca aggccatgct ggacgccatc gtcgctgtgt 240
gctcctcgcc ggccttcggc taccactact ggccgccggt gcccaataag gcgcaagcag 300
aagagtacgc gttgcagccg cagcactaca agggcggagg gtgctactac gcctctgaga 360
acgcgtcat ctacaatggc gggggg 386

<210> 40943
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-H4

<400> 40943

gacagggcaa gcgatggtgg tctgcatcta ctacgagccc attacccccg gccagtgcta 60

catggtggtc tagaggctcg gcgactactt cgtagagcaa ggctgtgaa tggattcatg 120

tatccttgct cgcttggtcca tggttcgag caacgatacc aacacccgca ttatttaatt 180

ggtagcctcc tctagctacg cacgcatttt tagtctccta cagcccttg gattgtgcgt 240

ggctctgtta atcatctctc atccttcgtc tgccatttct cccctgagat ttttgttct 300

tgttggtacc atgcattttg gcaaataaa 329

<210> 40944

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-E6

<400> 40944

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gcagcatctt cctgaagcgc gctggcgtg ccgggctctg cctcgccgac atcggtgaca 120

tgatgacccg cgagttcacg gctcagcagg atgggctgag cacactcgag gcgctatgca 180

agcaagcgca cgactccgtc ctcccacacc cctcgccga cggcgacggc gacggcgtcg 240

acgagagtac aagcgtctcc ggcgggcgga aacacgtgct gttcggcgac ctgagcctcg 300

cggagtggac gtcgttctg gagaggt 327

<210> 40945

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-E7

<400> 40945

ggctgttgag gctatccctg tggatcagat cgaccagca ttggttcaga tcggtctcg 60

tgaattcact gtcaagcttg tgcggcctct actgacctg agaaggctga tgcatagatc 120

ggagtcgatg ttcacagtgc cctcaatgct gcattgaccg gtttaattgt ggcattttaa 180

attgtcttgt atttttcatc tacatgttta gagtgagtgt aagtttgcaa actcatggtc 240

atgggatgga gggaatgaac ctaaataaat tatactccat ctaaaacatg gacatatgtt 300
tcttgtttcc tg 312

<210> 40946
<211> 328
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-029-Q1-K1-F1

<400> 40946

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catcctctgc tatccgtggc gaccggcaaa tgctatccgc ggtgctatgg cggacagact 120
gagctcctat ccgcggttgc cgagaaatat gggatgatag gccgattgga atgaagataa 180
cactgctcta gtgtgtgaat tgttctccga acaagtgaag tcgcacaacc gttctgggtac 240
ccacttagat aaaacaggag acaaaaatgg gatggacaaa ttcaaagaaa agactggggt 300
gtcctacacc aaaatgcagt tcaagaac 328

<210> 40947
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-F2

<400> 40947

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cccgaacaa gtgcgtccta accggcattt gagcgcggtc ttgtccacc taacctggtg 120
ccttttacgg tcgcattcgc accgcgatga actacgccgc agccgccact aacgcccccg 180
cggcggcgcc cgcggcagcg ccggcgctcg gcacagaaca cgcgcactac ccgtattacg 240
ctggctattc ttatccctac ggcgcctatc accaacctgc cccgccacg tactcctccg 300
ccgtggccgc cgcctcgta tctactact ac 332

<210> 40948
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-F4

<400> 40948

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acatgggtcat gatcctgatac accatatgat tgttttaaaa gcagcagcag tctagtgtgaa 120
gtaatgtttc gttttaagat tctagctgat agacgtccta tcatagctag tcaaattaga 180
tttg 184

<210> 40949

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-F7

<400> 40949

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agcttgacgc taaaagaag atcttgacgc agactcttga gcgtcagctc gtgacgttg 120
catacattga gaagaagaag aaaagcaagc gtttctttcg ttggtagaag caaacagcag 180
tgaattgttc acgcccacga gaaaaaagtt tatgcgtgtg atggaagcga gctgttgctt 240
gcgtatgccg gcaagctgcg attctgagtg taacacataa ggatgttctt tcattcttct 300
ttgatgttc 309

<210> 40950

<211> 105

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-G1

<400> 40950

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tgctacggtg atgttttaac atgataattg tgatgttggt aaaaa 105

<210> 40951

<211> 106

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-G10

<400> 40951

ccaagacgca cacgggacgg ttcgttcacc aaacctacct tgggtgggccc cacttttccc 60

ccgaaccgta gcttcagagt gatccccctt tcaccctcta tataat 106

<210> 40952

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-H1

<400> 40952

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gggcgatctc gcgggtttgg ctatgtatca ttcgcctcag ctgacgatgc aaagaatgtt 120

ctggattgcy agcatgttct tgggagccgt acattagaag tgaaggtagc tactccaaag 180

gaagaaatga aatcacaagg atcaaagaaa gctacaagga ttttcgttgc tcgaattccg 240

caatcggtgg atgagtcgat gttgcgtgga catgttgaag cttttgggga aattcttgat 300

ctttacatgc caaagagtct gtggaca 327

<210> 40953

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-E4

<400> 40953

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atggagagcc gcagcatggc atcatcggct gtgctcttgg tgctagccct tgcgcgagtg 120

gcggtcaccg acccacaggt agcggaggca aagaagaaga gagcggcgga gagcggcgag 180

gcggcggagg cgaagaagat ccaggacgac ttctgatcga cgcgtttcga gggcaagaag 240

gggacggacc tggtcgtgtg cgaggagttg ctcgctcttt tccagcagtc caacctggtg 300

ctgtacggca ggatccagtg caagggc 327

<210> 40954
<211> 188
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-029-Q1-K1-H2

<400> 40954

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TTTTTgtttt tTTTTTTTTT cTTTTTTTTT tTTTTTTTTT gttatTTTTT tttgtTTTTT 120
TTTTTTTTTT tttttatTTTT tTTTTTTTTT tTTTTTTTTT cTTTTTTTTT tgttttaata 180
TTTTTTTTT 188

<210> 40955
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-C12

<400> 40955

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cggaggcgga gaagaagaag gtcacgttcg tggTggaccc cagcggcaag ggcgactaca 120
ccaacatcac cgcggcgctg gaggatatcc cggTgagcaa caccaagcgc gtgatacctg 180
accttaagcc cggcgctcag ttccgggaga agctgttcct gaacatcagc aagccgttca 240
tcacgtttcg gtcggacccc aagaagcccg tcgtcgtggt ctggaacgac acggcggcca 300
ctaacggcaa ggacggcaag ccggtgggca cggTggggag cgccacgctg gcggtggagt 360
cggactactt tacggcgtag ggcgtcgtat tccggaacga cgcgcc 406

<210> 40956
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D1

<400> 40956

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 tctgtgctag gcaagtgagc ttcaacgtct ttttctcata cgtcttgaac tctcagaagc 180
 tcaccggttt gatcatgaac tccgtggtgc tgctcacctt ggctgctgta ctcttcttag 240
 ccaaccatga aactcatgga cctattactg gtggtgtcta aagacgaaag taccttctgg 300
 gtttctgtt gacagtagga gcatcaggca cctactcact cat 343

<210> 40957
 <211> 130
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D12

<400> 40957

aactgctct ctctcagcca tgctatttac ctccactacg gggagcatga tcaggcacia 60
 aagcttacat caataccacc tcgtagtgaa acacactcta atcaacattg atgacgatac 120
 atgttctact 130

<210> 40958
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D2

<400> 40958

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 atcctgatgg gattgtttga gaagcggata gctgggaaat tcttccttta tgtccaagag 120
 tataagtga atgacccaag tactcataag ggttacaacc ttactaaact aacgacaaaa 180
 gaacttatct caaaatatgg tttggatgat aatactatag actgttttgg gcatgcactg 240
 gctcttcata gagatgatag ctacttgaca gaacctgcaa ttgacactgt aaaacggatg 300
 aaactttatg cataaatcag gggctcgctt t 331

<210> 40959
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D5

<400> 40959

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ggaagctggt acgaaagagt atctgaaaga tttccatcgg cggaggctct aggtttttgc 120
ggaagcaggc cccgatttga ttgctttcga aacgattccc aacaaactgg aagctgaggg 180
gtatgtcgaa cttctcgagg agtgcaacat caatatgcct gcatggtttt ccttcaactc 240
aaaagatgga gtgcgtattg tgagcgatga ctcgtaatac gaatgcacta ctattgctga 300
caagtgtgca aaggttggtg c 321

<210> 40960

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D6

<400> 40960

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caaggagatc gctgataagc actggcgcta gggaccctta caaggataac taacgtgaca 120
tggcatgaac taattaatgc tcctatatca tctgcctatc catgcatgca ttgcattgcg 180
tatgcacact gtgcgtgcct gtccacaaag gtggacaaca caccgatctc gacggattag 240
taatcgagtg cactcgatcg ttatatcgat ggatgcttgc tattatatct gtattccaca 300
ttatatataa gaaatacaaa ttaaa 325

<210> 40961

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D7

<400> 40961

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cttaaccagc acgaacagca ttggttcgat ctttgcattg acaagaggac ttgcctacag 120
ggcaaagctc gacgacaacg ctgactact tgacttcgct ctcaaactcg aggctgcttg 180

cgttgagacc gtggagtccg ggaagatgac taaagatctg gcgattcttg tccatggatc 240
 ttccagcgtc acgagatagc cattacctga acacctagga ggatcatcgac gcattcgcta 300
 ctgagctccg atcaagactg ggag 324

<210> 40962
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D8

<400> 40962

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 cttaaataata gtgctctgta ttaagcttat ctgcatcttt tttttttttg catatgacat 180
 ctggtagtat taccgtcgag cctatgattt gttattgtta tggaataaca aactgaaatc 240
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 aacagtattt ttttttcttt t 321

<210> 40963
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-E1

<400> 40963

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 cgtcctcgag tccggctccg agggctcggg ctccgatcgc caccgacggg cgtcctccgc 180
 gcgcctcagc tttggcatgg agcaggagca ggcattggcag gatcggaac acgtcgccgc 240
 tgagaggga gcggagaaga atgacgaggt ggctgttccg gtgaagctcg gcaagggttcg 300
 aaagccaggc caccgaagg agccgg 326

<210> 40964
 <211> 214
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-E11

<400> 40964

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tgcacttatg atgaattaat ccaatgtatt tacataatgg tcgatttact aaactaggat 180

ttgaaagctt gcgcgtacta tactattgct atac 214

<210> 40965

<211> 328

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-029-Q1-K1-E2

<400> 40965

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gacatgcaca agggggggagg ggaaaacact gtacattcac ccggcgggcaa taatggtctt 120

ngtaccggct ccggcgacga cgaccgccgc cgtcatccta tgccatgcg tcgtcctctc 180

ctgtgccgcg gctgacgacc cgaacctccc cgactacgtc atccatggcc gcgtgtactg 240

cgacacctgc cgcgccgggt tcgtgaccaa cgtcacccgag tacatcgcg gcgccaagt 300

gaggctggag tgcaagcact tcggcacc 328

<210> 40966

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-A12

<400> 40966

acattggcgc ctttttagatg acggttggcg tcagagccat gaacgcgccg atactggaga 60

tcgtcatgag cttcgacctc gtgtacacgg aaaacgcgac agaacgtgac cccaagaagg 120

gcgactctgg catcataaag cccatcgcca tcggcttcat cgtcaacgcc aacatgctgt 180

ctcagagcgc cttcaaacgg gcctccatga accccggcgt ctccttcggc ccggacagag 240

tcaccgg

247

<210> 40967
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-A2

<400> 40967

ggaccatggt ggtgtgcgcg acggtgcggc ccttgtgttg gtggagtggg tcgaggttca 60
ttgcgatagc tggaagattg ctcccgggtg aacaaggaaa cgtgtgaccg aggttgtagc 120
aatggaggac ttctgccgta ataaggaag tgattgggac tgaaatttct ggagataaga 180
tgctcttctg agaagcctgg ttatgtgagt aaaattgttt gtattccggg accatgataa 240
ttaaacg 247

<210> 40968
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-A3

<400> 40968

gcaagcgggt cagggacttc attggttaagg ctttcgacga cgatgtacag tgactagctc 60
ataggacaga acagggagcc agcgaactaa ggcaattaac acttcttaat ttgggtgggg 120
ttagtttgtt cccacacaac aacagtgggt cttttaagta aaatcgtcgg agcaatctgc 180
agtagatcaa aacacttgca tagtgcagca aaaggaggct tagatgggtt cttgtagcat 240
ttgtgaattt taagcatttg gtgcgtaagt taaagctgaa taacacttca cttttaaaaa 300
aaaaaaagac a 311

<210> 40969
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-A4

<400> 40969

ctgacacatg ggctcaccgg accctaaacc tgagccacct gcctagcccg gaggtccgtt 60
 gatgctgtg cgactctagg cgtagcctga gccactaca agggctagcg gtggatggag 120
 ctgtgaaccg attacccata cgatccccctt accggtggag ggagaaacta gcctacgagg 180
 ccaataaagc cagaatgggg cacgatgagg atcatgatca agggatgcgt gtggaagaac 240
 acctacgact agaaactt 258

<210> 40970
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-A5

<400> 40970

cccacgcgtc cgcaacgagg tgagctcgag ggagatggag aggggtgaacg tgctccgagg 60
 catcctagac aacaacgtgt tcggcatggg gctcggcagc accgtggtgt ttcagatcgt 120
 gatcgtccag tgcttgggca gcttcgcca cagaccctt ctcagcgctc gcagtgggg 180
 cgcttgcgtc gccatcgggt tcgtcatcat gccctctgc gtggcggtga agatggtgcc 240
 ggtggagtat gcgggcctct cgatctctct cggagttgag aaactggagg caggcaagcg 300
 gtcagtagtt gttggcttga aatg 324

<210> 40971
 <211> 251
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-A6

<400> 40971

gcaagggcaa aattgtcggc gaatccggct gaaggacgt gcggcaccta tgataggcga 60
 cactggccgc actataccga agttgggcga atgggacgtg aacaacctgg tgtatgtcga 120
 cgggttcacg gtgatcttca gcaaggccag ggatgagaag aaagccccgg cccaaggcca 180
 catcagggac aggtcggcgt ctgtcgtcag caagggtgc aggtccagg atgagaagat 240
 gacctgctac a 251

<210> 40972
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B1

<400> 40972

agcgtcaact tcccagctga gttctcagaa tttactgagt catagacacc acttagattc 60
cagttcacca agcaatatta cttcggagtc ctatccagga aagttcgggc catctagctg 120
ttcttctgca caaagaaact caaaagtgc gaagaaaact gtcaacatac aaccaagaca 180
gccagcaaat gataatgtta tgaacacaag cagagcttct taccottgtg agaactatga 240
aactgaaaga agaggattag ggaaaagaac tctgggggat cctcaagtta caatgggtag 300
ttcaatggta gtggatggct catttgtatc atctatgtcc tctgataact cagtcgaaga 360
aagcagcttt caacaactgc aggatgctgt 390

<210> 40973
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B10

<400> 40973

gcatgaatac ccgcatctgt ttccagtcac gaacttcctg caaactctca gggagagctg 60
ctggagggtc tttagacaca tctacttttc tgtatcacgg tctgatttga tgtccgcgag 120
tgaagagcat cgctcgctcc tagactagat caacgtcacg atcaacgaga acatccatga 180
gtataagcac tcgtcgctgt gctcctctc ttacgactca aacgatgaca aaaagcccaa 240
taactctaag aagaagaagc ttcttggaag aaaacattca ttgcatcatg ttctcggagg 300
aggc 304

<210> 40974
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B11

<400> 40974

ccgatgcgca cgtacgggtc gacccaagct tgcgctggac acagagtggc tcatgtatac 60
 gggcgtcagg actacctaca tcttaggggt ctacttcac tgaactcatt gaactctaca 120
 gcctatatat gcacacactg gctcacgcgt ggacccgtcg acaaccttct tgcacttggc 180
 cgtcaciaaac caatgtctcc atcgtaagaa cagaacacct tcagctgatg accatcgcat 240
 gcacatccca ttgacttggc gcgagcattt tgataatggc atacacc 287

<210> 40975
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B2

<400> 40975

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 gttcttttgt ttttttctct ctttagtttt tttttttttt ctttttcttt tttttttttc 120
 tttttttttt ttttttctct ttttttctt tttttttttt gttttctttt ttcttctttt 180
 tttttttttc ttttttgtt ttttctttt tttttttttt tgtttttttt cttttttttt 240
 ttttttttct tttttttttt ttctttttt tttttttttt ttttt 285

<210> 40976
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B3

<400> 40976

gtgaagttcc ggaatgcagt agcgaaggac tactacttgc agatgtacta tgatgatctc 60
 ccactgtggg gcttcattgg taaagtttag aaggagggca aggccgatcc gagcgagtgg 120
 aagtactacc tgtacaggca catcatcttc gatatcctgt acaacaacga ccgggtgatt 180
 gaaatcaatg tgcacactga tcagagtgtc ttgggtgacc ttacggagga taaggagaca 240
 aatgtggatt tctgtactc agtcaagtgg aaggagacac caacaccatt tgagaagagg 300
 atggagaagt actccagctc cttcaacatg ccgtaccacc tggagggtta ttggttctca 360
 attataaact cttgtgttac t 381

<210> 40977
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B4

<400> 40977

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tgcagctgga aatggagcac aagataatga ggaaaagtct gtttcgatgg aaactgatgc 120
ataggttgag ccgtcaaaaa agaaagttaa gaaaactact gttccgggtcc atgagttggt 180
ctatggggcc ttggctgcag ctgacctgca gaaggctgta tagaaagagt atgagatggc 240
tcttcaagac agagtaatgg aagaaacaaa ggagaagaag aatgctgttg aagcttatgt 300
gtatgacatg cgt 313

<210> 40978
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B6

<400> 40978

gtcgtttcca aattcttcag atacatacaa gtgttatgaa agagaattct ttcctatctc 60
cagatattaa tcttcttgag ctagccgcaa ggacaaagaa ctacagtgga gcagagttgg 120
aagggtgtgt caaaagtgt gtctcgtttg ctttgaaccg gcagataacc atggacgacc 180
tcactaaacc tttggatgag gaaagcatta aggttactat ggatgacttt gtgaatgcac 240
ttcatgaaat tactcctgca ttgggtgctt ccaccgatga tctcgaaaga tgcagattga 300
gaggtattgt tgactgtggt aaggcaca 328

<210> 40979
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B7

<400> 40979

acccaacata gagaataact ctgcaagaag ttgtgcagcc tatgagaaag ctgtatcata 60
 gtgtaaacag aaaattcagt ttaagcagat tgaggccact cagcttgtga gtaatctgga 120
 ggaaatggaa gtaacagagc ataatttaaa gacacagctt gaaaatgctc tgaaggagct 180
 agaggctgct caacataaag cattatctgc aacctttgga acagctgaaa atgctctact 240
 ggaagctaag tcagtgtctg atcttaaate gaaagatttg gaggagaaga aaaggagct 300
 tgaactattg gataacaagg tgca 324

<210> 40980
 <211> 208
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-C1

<400> 40980

gcgaaggggg cacggaagcc agggcggcag aggcgctaag ggaggcaggg aggcgaagag 60
 gacgcgagga gggcacggcc agcggcagag agaggcggcc tgggtgtgcac gtgcgcgcaa 120
 gtgaggagag aagggtgttac agacactgtc caggaatggg aggagggaga caacacgaca 180
 tcagaaattg gggagggcga tggaccga 208

<210> 40981
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-G11

<400> 40981

gactcagcca acccatctt catcgacatg aattactgcc ccaacaagtt gtgtactgcc 60
 ggcggcgcc gcaagggtcac cgtgaatgat gtcaccttca agaacatcac cggcacctcc 120
 ttcaccccgaggccggcag cctgctctgc actgccaaagg tgccatgcac cggcgtcacc 180
 atggatgacg tcaacgtcga gtatagcggc accaacaaca agaccatggc tatatgcacg 240
 aacgccaaagg gcagcaccaa cgggttgctc aaggagcttg catgcttcta gaccctccat 300
 cgactgaccc atctctctag ttataatttt tctctcgtcc ttgcattgcc cattagatgc 360
 tatccattgg taacgcacaa cagtaaaacg acagacatcc gacagctata ttatgttcga 420

cggtgtaaca ccctg

435

<210> 40982
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-G2

<400> 40982

cccacgcgtc cgcgcaatcg tgcactgctg ctgcgttctg ttccgttcgg aagatgttct 60
tggagagctt ccgggtggag agcccgcggg tgaagtacgg cgacggcgag atccagtcgg 120
agtaccgcta cgacaccacc gaagtcgtcc cgccggggaa tggcggcggc gcggggtggg 180
tggtgcgccc aaagtccgtc acctacaact tcaagaccag caccaacgtc ccaaagctgg 240
gggtgatgct cgtcggatgg ggcggcaaca acgggacgac gctcacggtc ggggtgatcg 300
ccaacagga agggatttcg tgggagacga aagagaaggt tcacaaggcc aactacttcg 360
gctccctgac 370

<210> 40983
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-G6

<400> 40983

ggggaaattg acaaagacga gtttaggaaa gtgatgacac tgatgcgac ctataataga 60
gaaggagctg cccatagga tggtttacgc tttggacgca aggttggtca gccagtggaa 120
aatggtggac tggtcgaata cttctttggc aaggatggga atgaacatct acactatgat 180
aagttctcta gttttttgaa gaaattgcat gatgagattg tccgcttgga gtttagtcac 240
tacgatgtga aatcatccaa cacaatacct gttaaggcct ttgcgttatc catggttgct 300
tctgctgata tgatttacat agacaagtta ctggatagag ttgaggattt ggacgacaa 359

<210> 40984
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-G7

<400> 40984

cggaatctgc aggaccctgc ggcgcggtt cttcgtggag aagagggtgc tgccgaagcc 60
agcgccaggt agccatgtcg tcgtccgtgc tgaggggtgc ggccgacagg gccattcgca 120
ggcaggccct cacgtgacg aacgcctcgg tgtccaggat ccggcagctc ctcagcctaa 180
ggcaacggcc atacctgcgg ctgggtgtca aagcgcgagg ttgcaacggc ctctcctaca 240
ccctcaacta tgccgatgaa aagggaagt tcgatgagct tgctgaggag aaaggagtta 300
aagtactgat cgacccaag gctatgatgc atgttatagg caccaagatg gactatgttg 360
atgat 365

<210> 40985

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-G9

<400> 40985

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gggcgctaag gactcggaga ttgcaatagc gcacgcagag cacaatgatc gacacacatg 120
tgatgacgta tataggctaa aagcattagc cggcacatag atcaagactg atgcatgaaa 180
agcaccacta ctacgtctac gtaagtctgg acaataagta tatgatgaca a 231

<210> 40986

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H1

<400> 40986

gcgacttcgc gtgcttgatt gaaacgcacc cagtccccgc tcctgtttcg atctcccgaa 60
tgccgatccc gctaccggag gcggaggcga tggcgggcggc gccggcggtta aggttcccg 120
tcttcgggct cgtgcggtg ctgggcttgg ccgccgcggc ggcgatcctc ttctgggccc 180
tccacttccg aggcggcatg gcgctctcca ccgaagagga gagcaagctc cccctcttca 240

acgttcaccc agtgtaaatg ctgattgggtt tgggtggcctt gaatggcgaa gctcttttgg 300
 cttataaaaac tgtgccagga accaagaaac tgaaaaagct agtgcac 347

<210> 40987
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H10

<400> 40987

ccaacagctt tttaaacttt ggtcaaaatg cagctcaaga ctcatcccat gaaatgctga 60
 ggtcaagagg ctctttcaaa aatggtacac ttgctgatcc ttgtgctccc agaggatatt 120
 cagcgaatga aggtgcttca aggtcaacat tagagaacca gtatgttaat aatgggactg 180
 gaaactttac agagtgcata tcttcttcac aacttttact gcaaaaagga aaggattagt 240
 gccacatgta tctcatataa atgcagaaaa gtgccagtat caacaatgtc acctgggatac 300
 tacttttgta cctgaactgc gtggatactt cttgggaact gaaaatttct attttacttc 360
 aaagctcttt ggacttaaga agtcttcac actatcttaa ttcattgtatg ctggagaaca 420
 attttgcaat cagcatttgt cga 443

<210> 40988
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H11

<400> 40988

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 gggcatctct ctgcacggca accggctctg caccggctac ctgagcgcgt tctataggaa 120
 ctggatcgag atcgagaacg tcaagaacct tctaatgaac cgtcactgtt ccatctacgg 180
 gcatgtagcc ctggtgtgga gcaagaacca gttccatcgt tcttacaatt gcaagatact 240
 tccttatagc ttgctgctgg atcttgtgac taacgtccag atcctacgca tgactctgct 300
 caacagcaat ttcttccacc tcaacatctt tgagtgcatt aactatctga tcgacaaatt 360
 gacggatcaat gtcacagtg acagttcc 388

<210> 40989
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H12

<400> 40989

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gggttggggc aaggatgccc gcccgcctga actccacgag cccaagaaga ccgtcaaggc 120
ggagtagcgg cgctgctgcc ttgcttctcg tgctgctgtt cctggattgg agaggtgatc 180
tgacccttcc attgagttga atgaagtagc ctggaactgt ggtagttcgt cttttacatc 240
ttaagctgct gatagacttc aaataaaatc ttgtccaaga aaacattctg tgagcgtaca 300
tgttgtcgtc gagctgtgta attgagcata tcgtcagatt gaaactcgtt gtctgccttg 360
gtcttcaaat ac 372

<210> 40990
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H2

<400> 40990

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gtggcttggt tgctttattg cgcaatttgg tcagtctgtt gttcgagcag actatcttat 120
cctccgaag ggttttataa tgaccacaaa tcttccgcca acatatgatt tccacaatta 180
catgatacgc tcaatggaag aggagtttga gaagattgtc ggagtgagtg gactgttgtg 240
gggcttcgtt gttgctttta tgttatttaa tgtagacgga tccaacctgt acttttggat 300
agcaattctt cctgtaactc ttgttcttct ggtgggtgca aagcttcagc atgtgattg 359

<210> 40991
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H4

<400> 40991

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gttatccatg atccacagtt tggtaaaaga ctgccatcct tttctcctct aggagggagc 120
tcctatggca aaatgccagc agtaagagtt gaagtaggct cgccatcttg cggcggttagc 180
agcagcccaa aagtaaggat cgaaggtttc gcctgtggca actccgagac ccattatgca 240
gttacctttg tctgagcatt tcgttgatat gttcctgatt ttgccctccg accgaccgac 300
cgctccttgt gaatcacctg ggtgggtgtgc aggatattaa gtagtgcatt taagctagcc 360
tgattagagt t 371

<210> 40992

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H5

<400> 40992

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gggttgccac ctggttcata tagggaaacg gctcaactat ggaacagaga cattgtacga 120
ctggaaagct atgcaagcac atagcttttc atcgtcgata aagaggatta aacgtgccct 180
tgactcgtat catgaattgc gtatcgacca tttgcaactg gcttgcgcac tttttagaca 240
gtaccttctg atgcaaaact agcactggtt ggaagctgca tggetcaacc aatgagtagc 300
tatcttgaca 310

<210> 40993

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H7

<400> 40993

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ggggacattg tatgctaccg gcgatttggc cataatgaaa ttgatgagcc gtccttcacc 120
caacctaaga tgtacaaggt gattaggaac catccaagtg cgctagagat ttatcaaagg 180

aagttgttag agtctgggaa gatctcaaag gaagatattg ataggttaaa caaaaaggtc 240
 agcactatac ttaatgagga atttcagaac agcaaagact atgttcccaa caagagggac 300
 tggctttcag cttactggac tgggttcaag tcaccagagc agatttcgcg tatccgaaac 360
 accggtg 367

<210> 40994
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-028-Q1-K1-G10

<400> 40994

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 cgggacgtcg acaggcagca actaactacc gtgaccatcg tcaccgttgt ggtgggttctt 180
 cgccctccgt gccttcttcc cctgtccga tagccgacgc cgggtgcgaga tctactcccc 240
 cccatcctcg cttcaacgag cacctttctt taatcggtta ggtaagatcc actttcctag 300
 tacacggagt taatgtctag tgcttcatac tntggcaatc ctttgatttg gtcagtacgg 360
 ttcgtatatc tgtgaaattg gttgacaatg ttcgtgcatg tgcgaccatg gaatacctat 420
 ccgctctaag atctggtaga 440

<210> 40995
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H8

<400> 40995

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 tcaattgtgg tgcattgtcc tgggtctagt gctacaaact gtggaccacc cattccaagt 120
 tgtgtagtgg gtttcggatg ccttggtgaa agcctttgca ttccaacacc taaagtgggtg 180
 gacattgcgt gaggctggct tcacagagca gcgagtaccg cccgccacca gcggtggaag 240

gataatgagt cgctatgcta taggccaaatt gaggcacatg tgccctctct ggtagaccac 300
 tatctttttg ctatttttct tatctacttt tgttctctatg taaccattac gagtatcacg 360
 tttttggt 368

<210> 40996
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-E7

<400> 40996

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 ggagtcgaag atgactgogg cgggtgctgtc cgtgogcagc acgacgacgt cgctgctagc 120
 agcagtcatc ctgtgctctc gcacgtcttc cctctcccc cgogggogcg ctgocgogcg 180
 ggtctcccc ggcgccagcc cgatcgtggc cacctgcatg acgggoccg acccgagct 240
 gtgogtgggg gagctgggac agcggctgct ggacgtgcag acgtcgatcg cgtccgogcg 300
 gcccgaccag cgcgogggcca ggatcgcggg cgcc 334

<210> 40997
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-E8

<400> 40997

gagatacccg atcgacatag gcatacctga cttaacttga aggctgacac acgtacatgc 60
 gggaggggag accctttatg agctggacct ggtagcggcg attgagatcc gacgcaactc 120
 tatgccagct acttacacga gcacaataaa ctacgacgga tgttgagca catgaatgct 180
 ttacatgatg agaatcatct aataactggc cacttgagtg acgcctgact gacaaagaga 240
 gagatctact gatgaatggg ctgatatctc tactaaagag tcacatgtag acacccatga 300
 acttcatgat ctatgtcaac gtcgacgaac agc 333

<210> 40998
 <211> 422
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-E9

<400> 40998

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gtggacaacc ttgtcatcac cggcaaggga aagctcgacg ggcagggggcc agccgtgtgg 120
agcaagaact cctgcgtcaa gaagtacgac tgcaacatcc ttaccaactc gctgggtgatg 180
gacttcgtga acaacgggtga ggtgtccggg atcacactgt tcaactgcaa gttcttccac 240
atgaacatgt acaagtgcaa ggacatgctg atcaaggacg tcaatgtgac tgcacccggg 300
gacagcccct acacggacgg gatccacatg ggcgactcgt ccggcgtcac catcaccaac 360
accgtcatcg gcgtctgcga cgactgcatg tccatcgggc ccaggacctc caaggtgaac 420
at 422

<210> 40999

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F1

<400> 40999

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tcctcgccgt ggcctcaccg gctgctctgg ccgccttoga tgtgatagag atgctggccg 120
acaagcccac gtactccacg ttctgaagc tcctgcagga caccaaggtc gcgggcgagg 180
cgaatcagct ccggtcggcg acgctactgg tcgtccccga caaacttgcc aagcctctgg 240
cgtcgctgcc cgccgataag gtgcggccgg cgggtggagaa ccacgtcctt cttagttact 300
tcgaccccat caagctggac gagatgaaga cacgcacc 338

<210> 41000

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F10

<400> 41000

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cgaacgccag gttccttgga ccactatata caggagcgac gaagtgatcc acccgccagc 120
catggagatg aagaaggtec tctgcgccgc cctcgtcgcc gccgcctcgg ccacgcgcgt 180
gctggcctcg gtcgcctcgg agggcgccctc cgaggcgccc gccggcgcggt ccggtgggtgc 240
ggctggccct agcgcaagcg ggcgcgccgc cgccgtcgtg cccgcgcgtc gggcgctcgt 300
cgctccttc ctgcctact acctccactg agcgacgacg cgcgggggcg caacgttggg 360
atgcatcgtg tttggttcat ccgattaatt aattggtttt tttatttacg tggtttgca 420
ttggttaatt gtttgttt 438

<210> 41001

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F11

<400> 41001

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atagaaacta tttctcgagt gcaacaccgt aatcttgtga agttgtatgg ttgctgtctt 120
gaaggaaata aaccactggt agtttatgag tacctagaga atggaagcct tgataaagca 180
ttgtttggaa acgggaaact gaacctagac tggccaacac gctttgagat atgcttaggc 240
attgcaagag gcctcgctta tctccatgaa gagtctagca tccgtgttgt gcatagggac 300
ataaaggcta gcaatgtctt acttgatgca aacctcaacc ctaagatctc ggatttcggg 360
cttgccaaac tgtatgatga caagaagact catgtcagca cgaaagttgc ggggtacaatt 420
ggttatcttg caccga 437

<210> 41002

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F12

<400> 41002

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ggcctctccg tcctctagcg accgaccaac gcgccgagcg aagatgtcgt ggcagacgta 120
cgtggacgag cacctgatgt gcgagatcga gggccaccac ctcacgtcgg cggccatcgt 180
cggccacgac ggcgccacct gggctcagag caccgcgttc cccgagttca agcccagagga 240
gatggctgcc atcatgaagg atttcgacga gccggggcac ctcgccccga ccggcctgat 300
cctgggaggg accaagtaca tggatcatcca aggcgaacct ggagctgtca tccgtggcaa 360
gaagggatcc gggggcatca ctgtgaagaa aacagggcag tcaatcatca ttggcatcta 420
cgacgagccc atgacttccg ggcag 445

<210> 41003
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F2

<400> 41003

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agctagtaat tttctggagc gttgccttcc caccgtggct ggagctactg attcagaagt 120
gcaaaggcct gcgacggttt gagttgcagt gtggtctgtc attgctcagg agctgcctcg 180
acggtggcaa gaactggcat ctcgtgcagc agatccccga ggtgcgcata ataagctgcg 240
atggcaagag atactttcgg tataacaaga gccgccgcat ctacgaaact aatgcacagt 300
cagaagaatg aagccatttc tgaaaacctt ggcacgacac tggtttggtt tgggtcagcc 360
acacgtttca 370

<210> 41004
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F3

<400> 41004

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ggcaggcgcc gctctccctc tctccactcc cgcgcgtgaa gactccagag gtgccgagtt 120
gctcggtgcg actccttcgt cgccgtccac ggaagcggag gccggcgacc aacctccccg 180

cgcggcgaag ggtacaggcg gccggatccg ttgggcctca cgcgaggaga gccacgcgaa 240
 cggattcgac gaccgatgag tccggatcga agcttccact ggccgacttc atcgccgccg 300
 tcgccgttca accctgtccg tcggcgattc aacgaggctc cttccccggc tgggtgt 357

<210> 41005
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F5

<400> 41005

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 tgcctctccg tctctagcg accgaccaac gcgccgagcg aagatgtcgt ggcagacgta 120
 cgtggacgag cacctgatgt gcgagatcga gggccaccac ctcacgtcgg cggccatcgt 180
 cggccacgac gggccacct gggctcagag caccgcgttc cccgagttca agcccaggga 240
 gatggctgcc atcatgaagg atttcgacga gccggggcac ctcgccccga cgggcctgat 300
 cctgggaggg accaagtaca tggatcatcca aagcgaacct ggagctgtca tccgtggcaa 360
 g 361

<210> 41006
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F6

<400> 41006

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 aggatggtgg cgctggccct ggtggtcctc ctggtggcgg cgacggcgtc ggtgcccacg 120
 gccaccgcgt acggctgcta cgacgactgc tacgagcggg gcgccaacgg caagaaggac 180
 gaccccgccct gcaccaagat gtgcaaccag gcgtgcgcca gcaccgacaa gggcgccgcc 240
 gccggcgcgcg cggcttgatc gaccggggct tcatcggcgc gcgggctcag ctcgatatca 300
 gcatcatata caatcgctgc tccgtcgctc acgtcagccc atgcatgata tctcgacccg 360
 gccattg 368

<210> 41007
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F7

<400> 41007

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gagctcgtca tgaagtccat cgtgcccgtg gtcattggctg gtgtgctcgg tatctacggg 120
ctcatcatcg ccgtcatcat cagcactggg atcaaccca aggccaagcc ctactacctt 180
tttgatggct acgctcacct ttcgtccggg cttgctgtg gccttgctgg gcttgagct 240
ggcatggcca tcggcattgt tggatgatgct ggagtcaggg cgaatgcaca acagccgaag 300
ctttttgtgg gcatgatect catctcatt ttcgcagaag cgcttgc 347

<210> 41008
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F8

<400> 41008

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gggagagcgc cgaggtgata gagataatgc tgtgggtggg ctcattgggtg gatgaatggg 120
ggtgtcgggc tatgcgcggg tgacgtcctc attggagcat accccttcac cgttggttgc 180
ctcgtgccgt ggcctgcgaa gtcgatgact gtcattcatg gtaggaggtc ccgaccgacc 240
gtgcaacctg gtgcacgacg ctgtggcatg tgcgccaatg acatcacggg caagaacagg 300
taccacagga tgaggcgctt ggacgatgct gagatgagtt 340

<210> 41009
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F9

<400> 41009

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 cttaatggcg agtacaccac tgatcacata tcaggcgctc ttattattat tatttcacga 120
 tgtctcggga tgttattcta gctgctggt gagtggtgac ggcactccca ggcgcccccg 180
 aagtccagcg accattcggt tcagttcagc cctggagtcc gatgatccca caagcaacac 240
 ggccgccagc gtttcgggtg ctcttgctga gctcgtgtac accctttcca agatcatcgg 300
 cgtcagcgtg aacaacaaca gctctgccaa tgattgagtt tggcccagtc agtgtgatct 360
 ggctgtcggg aacattaatg tttgcaacac catctgctcc agctgtcaca tttccaagat 420
 caccggcatg 430

<210> 41010
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-028-Q1-K1-G1
 <400> 41010

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 cgaagcttct gccctccccg gcgtcgggct ctggctcgtcg tcggccggga agatggctgg 120
 cggcttcagg gtacttcacg tggtcaggcc ctttctggct ttcttgccag aagtgccgag 180
 cgcggatagg aagataccat tcaaagaaaa agttatctac actgttattt ctctcttcaa 240
 ttttctgggt tgcagccagc ttccactcta tggcattcat tcgacgactg gagctgatcc 300
 tttctactgg atgcgtgtta tcctcgcac aaaccgtggc actgtgaagg agttgggtat 360
 tacttcaatt 370

<210> 41011
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-028-Q1-K1-E6
 <400> 41011

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 atcggcagcc tagggcggtg caaggacgag aaggacgtca cggatatcaa cgtcaaggac 120

tgcacgctta agaagacggc caacggcgtc cgcatacaagg cgtatgagga cgccgtctcc 180
 gtgctcaccg actccaagat ccaactatgag aatatcaaga tggaggactc gggctacccc 240
 atcatcatcg acatgaagta ctgccccaac aagttatgca ccttcaatgg tgccctgcaag 300
 gtcaccgtca aggacgtcac cttcaagaac atcaccggca ctttctccac cccggaggcc 360
 gtcaac 366

<210> 41012
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D1

<400> 41012

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 ggtgcagacc cgcgcgcca actcgacgca ggtggtgggg ttccctgacgc tgctcgtctc 180
 tggcgccgtg ctgctgctgc tgacgggggt gacgctgacg ggcgccgtgg tggcgctcgt 240
 cttcctgggc cccatcgcg cgtctaccag ccccatctgg gtgcccgtcg ccgtcgtgat 300
 ctccgccatc gtcgccgccc cgtctctcgc ctgcgccttc gccgcgctcg tgcttcccgt 360
 gggca 365

<210> 41013
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D10

<400> 41013

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 gcggaccgtg ggcgacaccg tgcaggacgc gtgcagcaag acccagttcc ccaagatctg 180
 cgtggacagc ctcgccgcca agccggagag ccagaaggcg acgccgcgca agctggcgga 240
 gctgttcgtg aacatcgcg ccgagaaggg atccgggatg gccaccttcg tgcaccgcaa 300

gtacagcgac aaggaggaca ggcacatatt caagtgtctac gacagctgct ccgacgacgt 360
ggaggaggcc gtcgcccacc tcaacggcct cgtccgggag cccaccgacg ccaagttcct 420
cgagctcaag tcgt 434

<210> 41014
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D11

<400> 41014

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aaaatatcta caatttcctg aaagttcaga tgagagttgg tggtttggca attgcatact 120
tgctttggct atcaacaagg tcagagcatt ttgtgatatg ggggacatgg ttgttctagt 180
ttccactctc ttgctctctc tctttttctt tttcgttcac caatctttat tgttatgtga 240
cagctagaga ttgcaagctt tgtttattat cgtggttgaa catgatagaa gctc 294

<210> 41015
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D12

<400> 41015

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ggaagcccgt cgcgtgcctt tcttcctcga cgtgccatga ttaacggaat atttgagcac 120
tgggacctgg agcgacagtg aagtgtgacc caggagagtt ctggtgccat gtttcacagg 180
ctattccatt attcccaaaa gcagatgatt tccagtgatg gggatgaatg tgagaggtca 240
aatgaagaag atgaagactc caaaggactt ctactcgaaa gtgaagtagc attcatggac 300
tatgttaggg aagttcgta ttaggcaact gaattgtggg tttgcgttta ctgctacaaa 360
cgggctctaa ggcagcatca caatgtccga tgcgtatttg attattgtgg gttgttgga 420
agttgctggt ttttctgctc aaca 444

<210> 41016

<211> 269
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-028-Q1-K1-D2

<400> 41016

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gtctctgtac ggacgcgact accgcattgca ggctgtcatg ggctagctgg gcgtgccgtt 180
gacgaggcag cccgtgcttc accagtacga cgtgtacggt gaccttctgg gacttctcgc 240
agcgcaccgc gacgtgccgc tcgtgtcgc 269

<210> 41017
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D3

<400> 41017

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gacccgcgct cgcgctcccc ctccccacgg cagggcgggc gcgccatgtc ggccgcgagc 120
tgctcatcgc acccggacgg cagcgcgctc gtcgagctcg tcgccccgctc cgaccgcctc 180
ccggcgctga gcgcggaggc cgaagcgcta ccgtgggtgc gcctcgcccc cggcgacctg 240
cagtgggcgc acgtgcttcg ctagggtg 269

<210> 41018
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D5

<400> 41018

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gctctgagcc ccctttcaag gtcaaggggc tctggctctt caggggctca gaaattccca 120
agtttgtcat ggacgaagtc tatgacatgg agctttatga gtggaccaag gttgacctct 180

ctgatgaggc acagaaggag cgggtcaatg ccatgattga ggaccaggag ccattcgagg 240
gcgaggcctt gctggatgca aaatgcttca agtgaggaaa gagtttttgg gtccaattct 300
aaaacagcca tggattatag tttgtgatat ggcgtgctgg ttatgatta 349

<210> 41019
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D6

<400> 41019

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gggtctttgt aaaataaaaa ggtaaaagaa aactaaaaaa tataaaataa cataaaaaaa 120
tactatttaa caaaaaaagg gaggtctatc caaagttcct ttataatctg tactaatgtt 180
tttttggttt aaaagttttt tta 203

<210> 41020
<211> 342
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-028-Q1-K1-D7

<400> 41020

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ccgccggcgc cactatcgtc gccgcgggag aatggagcct caccgcggga gaatggggcc 180
acggggaagc cgaacgtctc gctcgggtct cccgcggctg gcgccggagc cggagccgga 240
gccggagccg aagtgaggtc cagggaggac gcctttgtcc agaaagttaa catttgctgc 300
gcggtgtacg acttctncga ccgaagcaag gactcgccgg ag 342

<210> 41021
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-D8

<400> 41021

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ctgttatgta ccgcttcttt tctaaagaaa aatagtagag ttttagaaaa cataatgaat 120
acagcttctt ttattgaact cttagaagta ctccagccat tgtagtttaa tttatctgca 180
tacagttggt tgtattgaac actgggacac cctgaggctt ttgttggtca attatgatta 240
tatttctgta tactttattt ttaatgggta atcaaaatgc tagcttatat aatgctccct 300
caaatgcagg ttgcaatatt ttccagcata gcttgctcac ctacttctca atttagaaga 360
c 361

<210> 41022

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-028-Q1-K1-E10

<400> 41022

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tgctggctct cttctgcac gtgcatggtg agaaggaaga gtcaaagggc atcgatgcga 120
aagcgtacgt gcctgggtggg tacttcgaca tcaccaagtt gggcgccctt ggcaatggca 180
tgacagacag cacgaaggct gtgcaggagg catgggcac tgcgttcgga ggcactggga 240
agcagacaat cctcatacc aaaggcgact atcatgtccg acaactcaac ttcacaggcc 300
ctcgcaaggg cgacgtgacc attcaggttg atggcaatct gctggctacc actgacctaa 360
gccagtacaa ggaacatggt cattggatcg agattctacg cgtggataac ctgntcatca 420
ccggcaaggg aaaccttgac 440

<210> 41023

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-E12

<400> 41023

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 attcatctgc cgggtgaaaa tgggtccatcc atctcgagta aacttggtgt cctgggtgtg 180
 ttcttttagca gcttcagttt agaataatca ggttatgtct tcatcatcag ttttttagat 240
 cggttcatgt aataataaac ttgagatggg acacatgttt cttaattagt tctcttggtg 300
 ttcttttaaaa aacaaacaca gtcctaaatg tgaacatg 338

<210> 41024
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C9

<400> 41024

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 ccgtcggcaa gacctgcatg ctcatctcct acacctcaa caccttcccc accgactatg 180
 ttccgacagt gtttgataac ttcagtgcc aacgttggtg tgatggtaac actgtcaacc 240
 tcggcctctg ggacactgca ggtcaagagg attacaacag actgagacca ctgagctatc 300
 gtggagctga tgtttttctt ctggctttct cactgatcag taaggccagc tatgagaatg 360
 tttcgaagaa gtggatacct gaactgaagc attatgcacc tgggtgtgcca attattctcg 420
 t 421

<210> 41025
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-E4

<400> 41025

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 acaccatgcc agcgacttgc aagagaaaaa tagactttca cggatgttgg agcacaagaa 180

tgctttacag gagagaatca tccaagaacg tgcagctgag tttggccgctc tgaagaaaga 240
gagagatgaa cggatgaatc ggttgatata ttcaagaaag cgtgaaaggg agacagtaag 300
gaagttgatg ttttatctga acctggagga acagcggatt gaaatgctac gtgaggaag 359

<210> 41026
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-E5

<400> 41026

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catccagggc tatcacggat gccgagcagg ctggtagata ccgacacgcc ttactctcag 120
acctacgcag ggcaagaagc aaatactgga caccatgctc ctctagctg ctactctta 180
agagctggaa gatctattgc tgggactcag aatgttacia gcctgcacaa ggatgaagca 240
tggaacgtga atgtacacat ccatggctga gatcttgaac agggtcatac atgtggaacg 300
atcgacgcgc ttaatgttcc attagcagat 330

<210> 41027
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B2

<400> 41027

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ctcttaagct acgcatatac attggtctct atttgcaaga gcctttcaaa gatccaacaa 120
agagaaaggt aatgcatggt gcggatcgtg atataatgtg gctccagcgg gacttccaca 180
tctatgtgtg caatcttttt gacacaggac aggcttcaag ggtcttacag atggagagaa 240
acagccttga gcacctattg cttcattttt gtggagtaac agcaaagaag gagtatcaaa 300
atgcagactg gaggtcgaga ccacttcctg atgaaatgat caagtatgct agagaagata 360
cacacta 367

<210> 41028
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B3

<400> 41028

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tacaaagaag atgatcaaaa tgcaaataaa taattaaaca cttaaaaagt attaccctaa 120
ttaatataat aactaaattc attattttta attgatggct tttatgggtg tacaataaga 180
aacataatac ttcaatctta ctaatgttta aagcaaaaat cttgggaaga atgggtgcaac 240
aaacacaaaa actctgccac ggtagcacia cctgtctctg tgatgatcta aacaattttt 300
ttcttttcat gaatgttttt tgctttgttt ttgggacagt cttacttgat tctt 354

<210> 41029
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B4

<400> 41029

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tggtgggtggc actagcattt ctggtaggcg gtgcctgggt tggctcctccc aagggttcccc 120
cgggtaagaa catcacggcc aaatatggta gtgattggct agatgccaaag ggcacatggt 180
atggcaagcc gacagggtgt ggccccgacg acaatgggtg cggctgcggg tacaaggacg 240
tgaataaggc ccctttcaac agcatgggcg cgtgtggcaa cgtccccatc ttcaaggacg 300
gtctaggttg tggatcctgc ttcgagatca agtgcgacaa gccagcagag tgctctggca 360
agccccg 366

<210> 41030
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B6

<400> 41030

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 tccaaggaag actgtttag aattaccagt ccgtgtggac tttgttggg gttggagtga 120
 tacaccttcg tggagcttgg agcgtacaga ttgtgtttt aatatggcga taagggtatg 180
 aggaagcctt ccagtcggtg ctatcgtaga tacaacagat taccaccttg gagtaaggat 240
 cgaagacgac tctttagac atgtttatat cgatcatct 279

<210> 41031
 <211> 330
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-028-Q1-K1-B8

<400> 41031

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 tcgaaatgca agcgtactt ccacaaccgc ctgaagcctg caaagcttac ctggacagca 180
 atgtacagga agcagcacia gaaggacatc catgctgaag ctgtcaagaa gaggcgccgc 240
 gccaccaaga agccatactc gaggtccatt gtgggtgctt tcttggaagt gatccagang 300
 aagagagctg agaagccttg agttcgtgat 330

<210> 41032
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B9

<400> 41032

ccccaacaag ttgtgtactg ccaacggcgc ctccaaggtc accgtcaagg atgtcacctt 60
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 ggtcccatgc accggcgtca ccatggatga cgtcaacgtc gagtatagcg gcaccaacaa 180
 caagaccatg gctatatgca cgaacgcaa gggcagcacc aagggttgcc tcaaggagct 240
 tgcattgttc tagaccctcc atcgactgac ccattctctt agttataatt cttctctcgt 300

ccttgcatg cccattagat gctatccatt ggtaacgcac aacagtaaaa cgacagacat 360
 ccgacagcta tattatgttc gacgggtgtaa caccctgaat ttgagggtat aaaatttctt 420
 ctccaaatac caaccaaatt ta 442

<210> 41033
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C1

<400> 41033

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 ttttatatcg tcgcaatttc gtggttgctg attggttatt ctgtgaagca gccaaagccaa 120
 gctattgtta tgaaaatttg tcgtctgtaa gcatgtgaac tttctacgtt gccacatgct 180
 gcatcagtct taataagtaa gtatgcagct ctaggtggtc agctgcgtct accacaatga 240
 gcatgtacgt attgagaaat atctgtgaac ccattttgct tatgaataa 289

<210> 41034
 <211> 78
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C10

<400> 41034

tggtcagcat atctgtcgcg ttcacttgaa attacagctg catccggctg atgcaagagg 60
 gactatcgca atctagtt 78

<210> 41035
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C11

<400> 41035

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 ccgggagccc accgacgcca agttcctcga gctcaagtcg tggctctcct ccacgctcgg 120

cggcacctcc acctgcgagg acgcctgcaa ggacctgccc aagaccagcg acaaggacga 180
 cgctgtcaac ttcagcctcg acttcgagaa gctgcagcgc gtcacgctcg acctcatcac 240
 cgaggcgctcc ggacccatgt ccgcaggcat cgccctgccca cctccaacg ccggagcgcc 300
 ctctacggc gcggcgggcg cttccggggg ctccgccgat gccccgcgcg ggcctccga 360
 gggccctgcg agcgccagcg gcccgctctgg tgacgacgcg ccggcgctccg gtgctggtgc 420
 cagcgctcg gctgctg 437

<210> 41036
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C12

<400> 41036

aacaagactg acagcgacga tgatgccaca gctgcgtagc ctgctcgcg tcgtctctcg 60
 ggccacggcc atagccgccg ctcccggcgt tgggtttgtc gtcaccggcc gcatctactg 120
 cgacaactgc cgcgccgggt tcgagacaaa cgtgtccac gccatccaag gcgcgacgg 180
 ggagatggag tgccgccact tcgagtcgca gcaggccac gacaaggcgg aggcgacgac 240
 gggccccggc ggctggtaca ggatggagat cagcgccgac caccaggacg agatctgcga 300
 cgtgcgcctg ctcaagagcc ccgaggcgga ctgcgccgag atcgaccact ccgcgaccg 360
 ctgccgcgtc ccgctcacc gcaacgacgg catcaagcag agcggcgctcc gctacgcc 418

<210> 41037
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C3

<400> 41037

ggaaatgctc attgaagagc ttatcggaaa ggctacatgc tatactttgc agatttgtgg 60
 tcatggtggt tggtattcat tataaactgc catctatatt agtgtcggga tcataggaat 120
 gtggatagca agaataatga caggggtgtc gtacctgaag ggttaaagga tatcgaagat 180
 tcagggtatt ttgtaacata tctacaccat tatgttaagt atttacacct tgacattgcc 240

cgaagaccag ttgatgtttt ggagaaacct gatgtcttct tagagcatat t 291

<210> 41038
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C4

<400> 41038

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cgacactgtc atgagcgaat tacatggaat gtcacccctt gtagtttaca caccattgca 120
tgcaattcac taagcctcat tgacataccg ggcataact accgtaatga ggtttaactc 180
tatagccaaa tatgatgac gacacaatcc acttaatat atatttacct acttttacat 240
tgtcacgtgg ataagtcctt tgatcctgta aaaa 274

<210> 41039
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C5

<400> 41039

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gggatgccac ttgcgacaaa tcaagagagg catcataatc ctgacctctt tcctaaacta 120
taacatgcag tgctggctcc tgagaccgtc tgtgcaagag acaacacctt caaacacaaa 180
ggcgatcaca tagacagtac accctactgc ttactccagt tcaacctgcc gattgcccctt 240
tcgaccgtgg taacatccaa agagcgaatt gtataactga caccagctca ga 292

<210> 41040
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C6

<400> 41040

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ctcgagctca agtcgtggct ctactacacg ctcggcggca cctgcacctg cgaggacgcc 120
 tgcaaggacc tgcccaagac cagcgacaag gacgacgtcg tcaacttcag cctcgacttc 180
 gagaagctgc agcgcgtcac gctcgacctc atcaccgagg cgtcgggcac catgtccgca 240
 ggcatcgccc tgccaccctc caacgc 266

<210> 41041
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-028-Q1-K1-C7

<400> 41041

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 cactnccgtc aactgtctca aggtatggat gtctcattgg tcccgacgaa tcagctcggg 120
 caccgcttgg acgcgtcgga catacaacgg actgtagcgc ggctgaaccg atgaaccgac 180
 cgttcaccgt ccaggagcta gtccgattcg ccgtctatga gcacaacttg aaggccaatg 240
 ctcttctggg gttcgagaag cttgtgaagg ctcaagacac aggtgggtgc tggcacgatg 300
 tactatctta gtttggaagt gaaggatggc gaagctaaga agctctacga agttaacgtc 360
 tgggagaagc catgggagaa ctt 383

<210> 41042
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C8

<400> 41042

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 ggcgtaccac ttcgatttgg caggcacggc gttcggcgcc atggccaaga aggggtgagga 120
 ggagaagctg cgcaaggcgg gcatcatcga catgcagttc cgaagggtca agtgcaagta 180
 cggctccaag gtcaccttcc atcttgaaaa ggggtgcggc cccaactaca tggcgctact 240
 ggtcaagtac gtcgacggcg acggtgacat tgtggccgtg gacatcaagg aagaagggtc 300
 ccgacacgta cgagcccctg aagcactctt ggggtgccat ctgtaggaag gacagcgac 359

<210> 41043
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H7

<400> 41043

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ctcttctgca tcgtgcatgg tgagaaggaa gagtcaaagg gcatcgatgc gaaagcgctc 120
gggcctgggtg ggtccttcga catcaccaag ttgggcgcct ccggcaatgg caagacagac 180
agcacgaagg ctgtgcagga ggcatgggca tcggcggtgcg gcggcactgt gaagcagaca 240
atcctcatat ccaaggggtga cttccttggtc ggacaactca acttcacagg cccttgcaag 300
ggcgacgtga ccatccaggt ggatggcaat ctgctggcga ccacggacct aagccagtac 360
aaggaccatg gtaattggat cgagattcta cgtgtggata acctgggtcat caccggcaag 420
ggaaaccttg acgggcaggg cccaaccgtg tggaacaaga ac 462

<210> 41044
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H8

<400> 41044

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tgataccacc ttttccatta atcattcctt aaaagaatgt gtaaatagat tcctatgtgt 120
ggtccatgat gcagatgccc ttcaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
gggcagccag ttttaagggt ccaaacttac attcgcgagg gtgccacctt ttaagtattc 240
aatcttgcca ccttaa 256

<210> 41045
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H9

<400> 41045

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ttgaccgcgt aactcaaacg gggagctggc aatgatttta cacattggac ttcagcagtt 120
cctactgcac cccgattgcc tctcaccatg tctgcactga catgggttcaa tgctccggtg 180
ccaccattta tgactaccac gacgggtgatt tcgtatacca actacatgac caatgctatc 240
ttctctaacg ccatgggcat caccaaagt tagcctcaaa gagcttgcat tcttatagac 300
cctaaattaa ttgaccca 318

<210> 41046

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A1

<400> 41046

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ggcggtggtt ctgtgcctgc tgctggcgac cgggcccgcag gaggccgtcg gcgccgaggg 120
gatgctgtcg tatgataagt tgctcagctg caaggtgctg ggcaactgcg acaagaacag 180
gggccccggg gccacctcgc cggggaagcc cgtaaacaag tacacccgcg gctgcagccc 240
gctgacccgg tgccgcggcg gctgatcata tctccttggt ttctggtcga tgtgcg 296

<210> 41047

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A10

<400> 41047

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gcggtagaga agcccgctgt gccctcgtg tatcaccgga acttgcagca aagacacaat 120
tccagtttgg tggatgcgag tggaggattc agcgagatgc ttgcctctac acggaggtgc 180
tatgtatttg gaggcaaagg tgggtgtggg aaaacaagca tggcggcgtc gcttgctgtg 240
aagtttgcca accatggtga accaacagct attgtttcga cggaaccatc tccgtcactc 300

ggtgatttat ttgaacaaga catgggtgtt ggcggcaaaa ctgtacgcat cactggattt 360
gactctcttt ttgcagttga ggctggtcag ttcaagataa agggagaacc tgaagatctt 420
ggatctttta tcaac 435

<210> 41048
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A11

<400> 41048

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acccaaca ccagcaggct gcgccggctc cggcgccagc acagggggaa gtggcgcatg 120
aggctgtagt gcaggggacg ggacaagagc aggatcgaga caaggcggat cgagaggtgc 180
aaggcgggtgc gggtgataag gacgacggcg cgtgcataga tctggctctg gtctaggatc 240
cggaggtcct tgcagtcgag gatccggagg aagctgcagc aaccgcaaca ctccaggaag 300
aatgaaagc gcttgtggca tctatccctg atggtgctgg agcagcattc acagtcatgc 360
agcttcagga gctagagcag cagttcatgg tgtaccagta catggctgcc ctaatacctg 420
tgcctactca cc 432

<210> 41049
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A12

<400> 41049

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cggcgcctcc aaggtcaccg tcaaggacgt caccttcaag aacatcaccg gcacctctc 120
caccgggag gccgttagcc tgctctgcac tgccaaggtc ccatgcaccg gcgtcaccat 180
ggatgacgtc aacgtcgagt atagcggcac caacaacaag accatggcta tatgcacgaa 240
cgccaagggc agcaccaagg gttgcctcaa ggagcttgca tgcttctaga ccctccgtcg 300
actgacccat ctctctagtt ataatttttc tctcgtcctt gcattgcca ttagttgcta 360

tccattggta acgcacaaca gtaaaacgac agacatccga cagctatatt atgttcgaacg 420
gtgtaacacc ctgaatttga g 441

<210> 41050
<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-028-Q1-K1-A2

<400> 41050

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tcgacgacgc gaagccagaa ggcctcgtgg tcggggaggg tgacgcagag agggacgatg 180
ggaacggggg taccgccta caacggcgt cggggcataa tagttggtca ggcgtgatca 240
taggggctca ctagaggcgc gtgcatcggc cctgggggac gaagacgggc ggtgcggcgg 300
cgattgctcg ctgggatccg caagaaccgn cgtccgatca tctgctgttg tcagcactct 360
tccca 365

<210> 41051
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A4

<400> 41051

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acctgacatg aggcaattac atggaaagtc cctcgttgaa gtaaacagaa gtttcttga 120
aaaacacaat gtttcttga tgcaccgagc agctggtgct gaaatgatgt atctcttaga 180
gccaaataag aagatggagg caattaattt aattgaagat tcaacaaata ttacatcacc 240
agggcatagt ttgcttggtc ctgtaaaaac atggcaaatt caagattgta ttgatgttca 300
taaattgctg gagacagtct ttggtgatca gaatgttgca aataagtga aagcacgggtg 360
cgcggaatat tt 372

<210> 41052
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A5

<400> 41052

cggacgcgtg ggcggacgcg tgggataaga gggcttcattg gatccagcag actagaggat 60
ttcgggtggaa gcataccacc agcagcgtca tcggcattag tcaagctgac aaaccggctc 120
aacttcctga aagaacgtat ggctgctgct ggcaagcgag atgcagagct tggatctg 178

<210> 41053
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A6

<400> 41053

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cctcgctgcc gccgctgggg ggtaccaggc ggcgctgtac ctcgaggcgc tctcgcgctt 120
cgcgttgctc atgcacgacc ccgaggtgct ccgcgccttc gaccagtgtc gcgcctcgcc 180
tcgtagctag ttacccttct tgttctcaag gcattcttgg gaagcatgag atgggctagc 240
atgtggctga tgcagtgcga aacagaacat aacctgact acgagtggcc agttgggcca 300
ttaggtggtg gtgagcgact cgaaaacgta gca 333

<210> 41054
<211> 156
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A7

<400> 41054

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gtgttcctcg tgggtgctcct actggccgctc gttgcggtgg cgccgattgc gggggctgcg 120
cgtgtggatg tcgtggaggg catgttcattg gcgttc 156

<210> 41055
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A8

<400> 41055

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cgtgacatga cgcattttaca tggaaagctc ctcgttgaag taaacagaag tttccttgaa 120
gaacacagtg ctgccttgat gcaccagca gctgatgctg aaatgatgta tcttttacag 180
ccaaatgagc agattgaggc actcaattca atcgaatatt caacaactat tacatagtca 240
cggcatagtt cgcttaatgc tgtaaaaaca tggcatatct aagaatgaat tgatgttcac 300
tacttactgg agacagtc 318

<210> 41056
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A9

<400> 41056

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aggacctatt cgttcgaatga ccgcccggaa aaacagtgc accatgaggg tggaatggga 120
tgcccttagc taattagtta gagaaactag agatgtagtt gcttcgccgc cgtgccgtca 180
atgggggtcca ggcacagtgc ttgctctgcc gaggctgggt gccgaggttc tttcattttg 240
cttttgtagg tcaccctctc gcgaggagtg gtgctgtggt tatcaaactg gagaaaccta 300
acgggcgggt atgacctcta gggaatcttt gtaaaggctt cgtagtgaat ccctggccat 360
tcaccttggg agtgataag ggtcttgcaa gcccgggcta gagagggaat cacgtcttgt 420
gggtaaagtg tgcaacc 437

<210> 41057
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B1

<400> 41057

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ggcaacagat tgctgaaatt gagaaacagt caagagagac tactcagtta actgctgtaa 120
ccacaaggac gacgaatgtg cacggagatg aactcattat cacaaccaca agtccatatg 180
agcaacaagc attcgcacgc aagactgatt ggcgtgtcag agccatctct gccacaaact 240
tgtatctacg tgtaaatac atttatgtca attcttgtga tataaaggaa actggctaca 300
cttacattat gccaaagaac atattgaaga aattcatatg cat 343

<210> 41058

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B11

<400> 41058

cggacatcga cgaaagctat agccagctag ttacaagagc aaaaacacca tcattctgac 60
cgcccgctctc aacgccacgc caatggccca gagcacgagg atggtggcgc tggccctggt 120
ggctctctctg gtggcggcga cggcgtccgt gccacggcc accgcgtacg gctgctacga 180
cgactgctac gagcgggtgcg ccaacggcaa gaaggacgac cccgcctgca ccaagatgtg 240
caaccaggcg tgcggcagca ccgacaaggg cgctccgtc ggcgcgccgg cttgatcgac 300
ccgagcttca tcggcgcgcg ggctcagctc gatatcagca tcatatacaa tcgctgctcc 360
gtcgctcagc tcagcccatg catgatctct cgaccggcc cattgaatct tctccttcta 420
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<210> 41059

<211> 475

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H6

<400> 41059

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gtagcaagaa catcaccacc gccagcaat aatggcgag agcatgagga ttgtggcgct 120
 ggccttgggtg gccctgctgg tgggtggcgge ggcggcgccc gtggccaccg cgtacggctg 180
 ctacgacgac tgctacgagc gctgcgceaa cggcaagaaa gaccccgctt gcaccaagat 240
 gtgcaaccag gcgtgcggct ccacggatca ggcgcgggt gccgccggcg ccgcgcgggc 300
 ttgatcgccc agcgattca tgccttcagc tcgatataat cgctgctccg tcagcaacct 360
 acatatgatt cgatcaattt tctctcteta atttctcgac ccgctcgaat ttttttctt 420
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<210> 41060
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-027-Q1-K1-G11
 <400> 41060

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 gaacacccac ctaaggattt ggagattgca atagtgaag cagagcacag tgatcgatgg 120
 gtccctgatg acgttcaaag gctaaaagca ttagccggga gagagtccaa gcctgatgta 180
 ggaaaagtgt cacttcacgt tctccctaac tctggccaact gggttcatgt ggacaatccg 240
 aaagggctac tcgagatcat ggtacctaac tttctatcag cagttcaaaa ttgagtggta 300
 cttcaatca gaaccttcatt ttattgtgac atattgagtt tgacaacca tgggataacg 360
 tttcctctct catattgntg cccaacaaga attctttgct tcttttctga ggaaatagtg 420
 cacccttctg ttaataatcg 440

<210> 41061
 <211> 348
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-027-Q1-K1-G12
 <400> 41061

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 tggattgagt gagattggat gagtttgaat cccaacaaa ttaaacttaa ttttttccaa 120

tcccatctaa tccatgtgta ttgggaataa ccgaacaagg ctttactgtt ttaaaaaaaaa 180
tagataaaat caataaataa aataaataat actgatatta taagtaacaa tttaatatac 240
tattggtcat cagttttaac atggtcactt actctgtatg tattttaaaag gggtgccctt 300
ttaaaggacc caagctttct tacgcttggt tgcaacttct tagctttt 348

<210> 41062
<211> 466
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-027-Q1-K1-G2

<400> 41062

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ctaccttctg ttgaatgcaa tcgctaacca actgcgctat ccaaatagcc atacacacta 120
ctactccttc atcactctgt atctattttc cgaggctacc caggaaatta cccaggagca 180
aatcacaagg gttcttctgg agcgtctcat agtgaaccgc ccccatcctt gggggttact 240
tattactttc attgaattga taaagaatcc gcgttacaac ttttggagcc ggtcttttac 300
acactgtgca cctgagatag agaaactgtt cgagtcggtg gcaaggctcat gtggcgcana 360
agttgtggac gaaggaatca gcgtgcanga tggcagccac taaagccatc tgctttgntc 420
aagtgttggt tttgtgctat ttcttctttg gcactggaaa ttttct 466

<210> 41063
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-G3

<400> 41063

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cccgtcggaa ggaaaggcaa ctgcgatcag caacaccatg tggaggaaca tcatggggca 120
ggccctctac cagttcctcg tcacttggtta cctgcagtct aggggggaaac ggctcttctg 180
gatcgacgag ggcgccgtcg acgccgacct ggtcctgaac acggtcatct tcaactgctt 240

cgtgttctgc caggttttca acgaggtgaa ctcgagggag atggagaggg tgaacgtgtt 300
 ccgaggcatc ctggacaaca acgtgttcgt catggtcctc ggcagcaccg tcgagttcca 360
 gttegtgatc gtgcagtgcc tgcgtagctt cgccaacacg 400

<210> 41064
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-G4

<400> 41064

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 gcccgccgtt ctgctccttg tagatctcct cgcacctgc ccattcgctt caccaagggt 120
 ttaagaccgg cggcgatggc ggcgaagctg gcgcagctgc gcacacaggt aacgcgtgcy 180
 gcggagttcg cctcgaagca cggctgctcc tactacaagg aggtaatgga gaagaacaag 240
 cagtacgtcg ttcagcccc caccgtcgag aagtgccagg agctctccaa gcagctcttt 300
 tacaccgcc tcgcaagcct accaggtcgc tatgagtcac tctggaagga gcttgattgt 360
 gtcaagcagg tatggaagaa caggaaggac ctcacggttg aggaccttgg cattgccagt 420
 ttggttgagg ttgagctcta tgcattgggtc tgcgt 455

<210> 41065
 <211> 184
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-G5

<400> 41065

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 attggaagta cacatggagt taaacctgcc tgatgaaaat ggtcgtttgc aaatccttca 120
 aattcataca aataagatga gggagatttc ttccgtgtct ccagatttaa atctatgagc 180
 tcta 184

<210> 41066
 <211> 340
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-G7

<400> 41066

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gcttaaaata cgcacggtt ggcaccgtc ttattagagc acgacgctgt gcctgctcaa 120

tgagtgcctt ctctggagct gggggaatgg tctacatggt gtacagaact gtcaaaggaa 180

actggcttca caagcaacac actgaccgtt cacagaggca tcatgtgttc aagaaacgct 240

atgcgtatcc tgttgtgctt tgctagaaac gatttgggtc atgactacct cgttttggca 300

tcaaaagcgt tggtttacac acacaagccc atgttatgca 340

<210> 41067

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-G9

<400> 41067

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tcgtggtgct ccttctggcc ggcgtcgcgg tggcgccgct tgccgggggct gcgcgtgtgg 120

atgtcgtgga gggcaggtcc atggcgctccg tcgacgcgcc tgaagcggcg gctgacgcgc 180

ccgctcccgg tcccgaactc gcctgatccc cggactcgcc gtcggaggcg ccttacagca 240

gcagctcata cgactagccg cgcacaacgc agttcttgtc atgatctatc tagcagataa 300

aaagatcata tgtctcgttt gattctctgg aataactaat agtatatatg ctgcgcccgg 360

atgatatagt aatatgtgca tcaaatgcgt ggggcaaacg catggaatgt gc 412

<210> 41068

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-027-Q1-K1-H1

<400> 41068

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acacctcgtg ccgcctccgt cgccggctcg cctccccatc gacgcgcagg cagccctgcg 120
 ttgtctcccc gtccgtcggg aaaggggagc gccggcgctg cctccagcaa tcaactcgcc 180
 gcatccaatc acgggcgctc cctcctcgat tggctcctcg gtgggttggtt gttataggca 240
 ggcgggaagg atgtttctcg tgagccagat cgagcacgac ctcccgatgc cgccgcacct 300
 gctgangccg ccccttcccc acgcatcaa ggccgagctc gagaggctct tcttggacaa 360
 ggtaatcaca aaacttgggc tgtgcgtgtc tgtctatgat a 401

<210> 41069
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H11

<400> 41069

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 ggtgggggtt tgatggcgat gagcacctgt cacgtactct aaggccactt tctctcatta 120
 aggtagtact gagttcattg catgactatg acttctgaag atggagacat tttggctctt 180
 gtgtctgagc caagcctaaa ggaagagcaa cttgaggctt ctgaatctga tgctacgtct 240
 tctgcaatta tgaaagccat tgaatcaa atagaatggag ttgaatgttc accatgcaga 300
 agcttgtctg ggcagattga tacttcattc atac 334

<210> 41070
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H12

<400> 41070

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 cattgtgacc accgatgtgg cgcaggcggc gaggggaatgc gagaaggaca gcgagcgatt 180
 ccttggggca tgcattggcg cggaactg cgccaacgtg tgccgcggtg agggcttctc 240
 cggcggcagg tgcagcacct tccgtcgtcg ctgcatctgc actaagccgt gctaaattaa 300

cctactcccg gcagttcgat ggtggacgtt tattctatattt attggcttac ttgatttttt 360
 ttcccctaac aataagaaaa cgcacgtgct tgcattgtacc gtgtgttgga tatgctttt 419

<210> 41071
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H3

<400> 41071

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 atacgaccgt gggacaacgt agaccggagc tcgatcgccg cagttgccgc atgggcgtgg 180
 ctgtcaaaga tcttttgcta ctttcttgat ttgtgcttgc gttgggttcg gtgatccact 240
 ttctttttat gtgattatta atcttggttt cagatgcatg tacgcatgta tgtgccggca 300
 ccatatggtc ttgtgttaag attattcatg gattccaatc tctagtgtat ggtcgattgg 360
 tttgtgagtg catgttgtac tcataccaac ttctgtcttt acatcagcat ttattacgaa 420
 atagcaatgt gacctatcca aatta 445

<210> 41072
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-H5

<400> 41072

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 ccatggatga cgtcaacgtc gagtatagtgc gcaccaacaa caagaccatg gctatatgca 120
 cgaacgccaa gggcagcacc aagggttgcc tcaaggagct tgcattgctt tagaccctca 180
 gtcgactgac ccatctctct agttataatt tttctctcgt ccttgaattg tccattagtt 240
 gctatccatt tgtaacgcac aacagtaaaa tgatagacat ccaacagcta tattatgttc 300
 gacgggtgtaa caccctgaat ttgaggggtat aaaaaaaaaa gataataata aacaaagaaa 360
 aaacaaaaat tagaactaaa ataaaataaa tatgatatac gatccattga aagcagaatc 420

aattcattc

429

<210> 41073
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-G10

<400> 41073

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gtaggaaata gagatgagtt tctcaacata gaacatgaac aagatgaagt ggaagaaacc 120
ttgccggcac atgaagaaga tgatgtccat gttgttgagg caggagatgc aacaggttta 180
aggcatgata cagtgccgca gagaacgact actgctacaa gagggaacaa tgaagaaaca 240
aggacaaaga ggcataaaaa gggtgataac ctagaaggaa taatgggaag atacattgac 300
atgagaatga agcaagctga ggaagaagcc acacaactag caaaagagag ggaggaaaag 360
gaagtgagtc aagctgcaga cttctcaatc aagaagtgc tatccattat tgggtacaatg 420
gaagttacaa aggaggaaaa agcgaaag 448

<210> 41074
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E7

<400> 41074

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gtattaatct ctcatctact ttgggtcacgg acattgggtgt gaagaagatc tctgtgttga 120
attcgctgaa gtcagttaac cttgacaatc gccaaattac tgatgttggc ctggcagcac 180
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gcacaaattg cttcagatat tttaagaatc ttgtttctct tgaagtctgt ggtgggttcg 300
ttactgatgc tggagtgaag aacatcaagg atctgaaggc cctgacgttg ctgaatcttt 360
ctcaaaatgc taatctgaca gacaaaacct tggagctgat ctctggcctg actgctttga 420
tcaacttgaa cgtgtcaaac tcacgggtgt ccaatgct 458

<210> 41075
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E8

<400> 41075

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 gtccaatgaa aacagctaac ctcgacaatc gacagattcc tgaccatcta ctcgatgtac 180
 ttataatcta tacctaggcg tgctcatcgt gacctttacg gagcctgcat acctacacca 240
 tggcaccaat tgctatagat actataagaa tatcggagct aatgcaatct gaagagagtt 300
 acgaactgac gctggagtga agaccattac ggatctgaat gccctgacgt ttctgaatgt 360
 aagtgaaact gcttacctgt cagaccttac ctatgatatc cacattg 407

<210> 41076
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E9

<400> 41076

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 acatatgcca gcgctgtagc gagccacgtg gagttgctga tcgtggcagt ggcgggcgcg 180
 gaggaggagg aggaggcgac tacgccagct tcggtggccg cgggtggctcc tacttcggcg 240
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 ctgtgaacag tggcgctggc ggctttgacg gcgacatgtc acgctcacgg cgctacggct 420
 tctgcagcgg tgctgctggt 440

<210> 41077
 <211> 465

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F1

<400> 41077

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atgatgacct tgatcttttt ggtgatgaaa ctgaggagga caagaaggca gctgatgagc 180
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tggatgtcaa accatgggac gatgagactg atatgaagaa gctggaggag gctgtccgca 300
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ttgaggacca ccttacgcaa gagcccatca atgagtacgt acaga 465

<210> 41078
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F10

<400> 41078

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actttgaaca gctcttcaag gagacggtga acttctccaa gaaattccaa ggtggaggtg 420
gagcatcttc aaacaagaac gacccg 446

<210> 41079
<211> 119
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F12

<400> 41079

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ggagaaaaaa aaaaaaacia atggggaaca caaaaataaa aaaaaaaaaa atataatat 119

<210> 41080

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F3

<400> 41080

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ggcaagggcc tgtgcgctgt gatgtggttc tgggtcttct acagggctaa gcacgatggt 180

gctacgctct tgggttagcg tcacaccttg gatgggcatg atgaccactc ttatggtcac 240

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tgctttgcat gtcacaacia ctaaagattg agttaataaa ttgtaccacc cttcatggta 360

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<210> 41081

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F4

<400> 41081

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cgtggtggaa ttcgtttggc ctggttggtg cgggggacca cagaagcatt agctgggtga 120

actctttcaa aaggggcagg tgcgctagtt tgaatggctg ctacaaagct tcaggccttt 180

tggaaccacc ctgctggccc caaaaccatt catttctggg cgccaacatt caaatggggc 240

atcagcattg ccaacatagc cgactttgca aagccgctg aaaagatatc ttaccctcag 300

caagttgctg ttgcatgcac tggaatcatt tggtaaggt acagcttggt tatcacaccg 360

aaaaactgga accttttcag tgttaacgtt gcaatggcgg gtacaggcct gtatcagctt 420
tcacggtaga ttaggcaaga ttacttgtct tgtgagaagg a 461

<210> 41082
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-027-Q1-K1-F5

<400> 41082

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cccgtgata gcagaggcaa agaagaagag agtcgccgcc gccgccgccg aggagaagaa 180
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gtgcaagggc aagtgcaccg agcagaaggc catcaccgcg ccgcagatga aggtgtgcc 360
agaggcgtgc gacaaggact acgtggtcaa ggcggctgan gtcaccaagg cctgcaacac 420
cacctgcgcc aaggagaagc agcctctgct cagcgagaac 460

<210> 41083
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F6

<400> 41083

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cgccgcgttc agcctccgcc gccttcgact ttgaggaagc agcaaccttc cttgccgatg 180
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ccaaggacgt ggagcgcata cggagctatc ccaagctggg caagccgtct cttggagcca 300
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agcaactagt taaggcgggg gcaaagtcta tcgtgattga tagttcacag gggaactcca 420
tataccagct cgatatgata aagtttgca agaagatgta 460

<210> 41084
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F7

<400> 41084

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ttcctcgtct cattgtgtcc accgatatgg cacaggcaag ggaatgcgag aagtacagtg 180
agcgatttgt tggggcatgc atgatcgcag acaactgcgc caatgtgtgc cgcgggtgagg 240
gcttcttggc cggcagggtgc agcacctttc gccgcctctg catctgcact aggcagtgc 300
aaacaagatc gtcgatcgc tcgtcatgca tcgacaacct attcttaata acgttcatta 360
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tgactg 426

<210> 41085
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F8

<400> 41085

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ccgacgcgga cgggtgtcag ctggaatgta gacctacgaa gctgcagtcg tacgccatcg 120
atatgagcac cgtgtcgaga gctgttacat gagcctctac gtggtgtatc caagcagacg 180
acgcgacggg tggacatata tacgatgcac tgttacacgg tgacctctag tactgcttga 240
acgttagtca gtgcttctg aatccaatga gctactacgt gttaccattt ttggactgcg 300
tctttcgaa gcacgtcaag cgcgcttgat acgacctcaa gttcgggac accatgtact 360
agggcagg 368

<210> 41086
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-F9

<400> 41086

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 ctttatttgt aatctgaagc ttacaggaac atttgagtgg atcatggacg gattggtagg 120
 cctcttgaaa gtccgggtgg tgaggggcat caaccttgcc taccgcgacg caagaggcag 180
 cgatccgtat gtcgtectac gacttggcaa gaagaaactt aagacgagcg tgaagaagag 240
 atctgtgaac cccatctggc acgaggagct aactctgacc gtcacagatc ccagcctagc 300
 tctgaagctg gaagtgttcg acaaggacac gttcagcaag gacgacccga tgggggacgc 360
 ggagaacgac g 371

<210> 41087
 <211> 459
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-027-Q1-K1-G1

<400> 41087

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 gtcgtcgtct ctctctccag cggcggcagc cgcgcccctg gatctggacg gcaactccgt 180
 cgcgcccctc accatctgca tgattggcgc cggcggcttc atcggtctcc acctctgcga 240
 gaagctcatg gccgagacgc gccatgtcgt cctcgccgtc gacgtatact gcgataagat 300
 ccgncacctc gtgcaccccg cgccgtcgca cctcgcggtg cgcattctct tccaccgcct 360
 caacatcaag aatgactcca ggctcgaggg cctcatcaag atggccgacg tgaccatcaa 420
 cctggcggct atctgcacgc cggcggacta caacacgcg 459

<210> 41088
 <211> 467

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-027-Q1-K1-E6

 <400> 41088

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 aaagatcagc ttaaggttga agttaccaca gtgtttggat ctgcagcacc ttactcaaa 120
 gtgaatcttg tgcaactggt gggaactgac tctaaagtca tcaccaatgg gaacagggag 180
 cttcaatatg accttgacaa aaatgtccat tacttggaca ttgtccatt gcaaatagat 240
 gttgggaaat actcggtagt tcttgagatt tcacttcatt aacaatagcg tgagactgtt 300
 tatgtctactg gagggaggaa cactgaaagt gtatttgtca caggactgat caaagttgat 360
 aaggcacaga taggaatatg cgacaatgat gctgggaccg tggagtctgt ccaaagtta 420
 gatcttgtga aagatacaca ggtgtctctt tctgcaaacc acctaca 467

<210> 41089
 <211> 469
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-027-Q1-K1-D3

 <400> 41089

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 gcttatctcc ttctgcgact cgtaagaggg tgaggtcttg cttgcctcgc ggaatggcgg 120
 cggccggggc atggctggcc cgtgcgactg cgacggcgga gctgggtttc gtcttgccgg 180
 tggcgtcagc tgaggctgca tcgggagacg cggagatcgt tttcctcaag gccgtcgagg 240
 tcaaaggcgc aatgtgcttg cacggcagct caccggtgta ccatttatct cgcggctccg 300
 gatctggcgc caataactgg gtcgtccaca tggaaggagg aggggtggtgc aggaatcctg 360
 atgagtgtgc ggtacgcaag ggcaacttta ggggctgcta caaattcatg aagccactct 420
 cgatttaggg atattatgcg gcatccaata atccaattct gatttctac 469

<210> 41090
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D4

<400> 41090

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tcctcgattg ggaggtcaaa gagcagctcc agaacataaa atctgaaata gctgatgcgt 120
ctgctaattcc tcaaggtcta cttctggagg cccttcattc ggctggatat tccggggcac 180
tggcaaaacc tttgatggct tcagaatctg ctgtaaaccg gttggatggt agcagcttgg 240
aggaatttgt tgctgaacat tacactgctc ccaggatggt tcttgagca tcaggagttg 300
atcatgatgc gctgatttca gttgtagaac cacttctgtc tgaccttcg tgctgaaac 360
gtcctgaaga gccaaaatct gtgtacgtgg gaggagacta tcgctgcaa gcagattctt 420
caaacacaca catcgcaatt gcttt 445

<210> 41091

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D5

<400> 41091

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ggcgtgccc gtggccacca cggacgccag gtcccctccg cgcgggcgga ggcggcgcg 120
gccgtggctc gcccggggt tcgtgatgag cgtgctgtgg gcgtacacc tggcgcgcg 180
gctggtggcg ctctggtgg ccatcggtta cgtggtcggg atcaagccga gcgtgctggg 240
cgtgacggtg ctggcgtggg gcgactccct gggcgacctg gtgtcgaacg tggcgatggc 300
ggtgcacggc gggcccggcg gcgcgcagac cgtcgtgtcc ggggtgctacg cgggcccgct 360
gttcaacacg gtggtgggtc tgggcctgtc gctggcgctg gcggctggcg cgc 413

<210> 41092

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D6

<400> 41092

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 tcgtcttccg gccttgccgt gaacgacgag tgcaagggtga agttccggga gctgaagtct 120
 cggcggagct tccggttcat cgtgttcagg atctgactga caccggacatg gatatacaagg 180
 tggaccgtct cgggtggaccg aaccatggct acggcgactt caccgacagc ctcccggcca 240
 acgagtgccg ctactcgatc tacgacctcg acttcaccac catcgagaac tgccagaaga 300
 gcaagatctt cttattctcc tgggtccagt acactgtacg caccatgagc aagatgctgt 360
 acgccagctc caaggacagg ttcattgagg agctggactg cattcagtgc gagatccatg 420
 acaacgaccc catcgagatg ag 442

<210> 41093
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D7

<400> 41093

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 aaggtctcct ccagcaccta caacatagcg caggtttcat atgagctgaa tgtcttgggt 180
 actcggggcc ctaggcggat gaactgtgtt atgcactcca tccctacctc gtgccttgag 240
 gctggtggca ctgttcccag ccagctggac agcatccttg ctgctctac tgatgagtca 300
 tttggcagca tttccttctc caagtcattt gttgtggacc ggtctatgcg tttcagcagc 360
 tcaagattct ccgacatctc aatgagcagc agccgcagga ttggagacac ggcatcggga 420
 gacaatgatg agtgcaagga gaggccattg at 452

<210> 41094
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D8

<400> 41094

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gatccaatag aaaaggctct tcttggtctt ccaacggatg gccttcgcgt gcttcttgaa 120
 tacgtccgtg aatggaatac gaagcccaag ttctgtcatg ttgcacagtt tgtgcttttt 180
 cggttattga ggagtttctc tcccactgat atcctggaga tcaagggcat cagtgaagctc 240
 cttgagggcc ttattccgta ttgcagagg catttcagcc gagtcgatag actagtcgga 300
 agcacgtttc tgttggaacta tacgtgatg cgaatgtccg tggtagatcc agatgtagat 360
 gcgggaacaa tcaaagatga aatgaacggt tcgtctgcgg agaacggtga acttgcaga 419

<210> 41095
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D9

<400> 41095

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 ggcccttacc gaatccacgt tcgagaagga ggtcggaaag gaccgcggcg ccttcgtcga 180
 gttctacgcc ccctggtgtg gtcactgcaa gaagcttgct cctgagtatg aaagacttgg 240
 tgcaagtttt aagaaagcta aatctgtctt gattgctaag gttgattgtg atgagcacia 300
 gagtttgtgc agcaagtatg gagtttccgg gtatccaaca atccaatggt tcccgaagg 360
 atccttggag cccaaaaagt atgaaagaca acgcactgca gaagcccttg ctgaatttct 420
 caatact 427

<210> 41096
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E1

<400> 41096

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 cacaacaatt cttgacgtgc aaggagtggg gatgaagcaa ttcagtaaag ctgcaaggga 120
 gtcattggc atgcttcaga agattgatgg tgacaattat ccagagaccc tgtgccgcat 180

gttcatcatc aatgcaggcc agggattccg gcttctatgg ggcaccgtca agagctttct 240
 tgacccaaag accactgcaa agattcatgt tctgggtaac aagtatcaga gcaagcttct 300
 cgaggtgatt gatgctagtg agttgccaga aatttttggg ggaacctgcc gatgtgaagg 360
 tggttgcatg aaggctgaca aaggcccttg gaaggacccc gaaatcatga agatggttca 420
 aagtggatgat gggaggtgtg gatcactcgg ta 452

<210> 41097
 <211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-027-Q1-K1-E11

<400> 41097

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 atagcggcag tccagtcac ctctccgaa gccggcggtc gccgccggcc atcgccgcgg 120
 aggatatggc gtcctccgt gtggtgtcgg tgctagtgtt ggtggcaatg gcggcgagcg 180
 cgggcggcgt cgcggcgagg cctctggtag ggggaggcgg ngcgtgggag aacagggcgc 240
 cgctgcagac gtcgcgcccc ttcaacatcg cgcaccgggg ctccaacggg gagctccccg 300
 aggagacggc ggcggcctac gcgcgcgcca tcgacgaggg cgcggaacttc atcgaggcgg 360
 acatcgaggc caccaaggac agccacctcg tctgcttcca cgacaccacg c 411

<210> 41098
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E12

<400> 41098

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 tgagaaggaa gagtcaaagg gcatcgatgc gaaagcgtcc gggcctgggt ggtccttcga 120
 catcaccaag ttgggcgcct ccggcaatgg caagacagac agcacgaagg ctgtgcagga 180
 ggcattgggca tcggcgtgcg gcggcactgg gaagcagaca atcctcatac ccaagggtga 240

cttccttgctc ggacaactca acttcacagg cccttgcaag ggcgacgtga ccatccaggt 300
 ggatggcaat ctgctggcga ccacggacct aagccagtac aaggaccatg gtaattggat 360
 cgagattcta cgtgtggata acctggtcat caccggcaag ggaaaccttg acgggcaggg 420
 cccagccgtg tggagcaaga ac 442

<210> 41099
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E2

<400> 41099

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 gaagatggca cactcattat accgtgcagt gaaggaaaaa aagattccag tcccaaaact 120
 agctttggat ttccttggtg gtgctttggc aaggaatgat gagaccattg gtactgctct 180
 ggagctgctg gaagagtatc aaggggagtc gcttaagcat gcaggcaagt cctttgccac 240
 agttgtacat gctttgtgta cggtaaacia aatggacgat gcaaataatt cgctgatgag 300
 gatggtgcag cttgaagagt acaaagggga atctcttaag aatgcaggca agacatttgc 360
 cacagttata catggtttgt gtaagaaaaa gaaattggag gatgcaaaag cctctgtgat 420
 gaggatggta aat 433

<210> 41100
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E3

<400> 41100

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 gccatgccgt gctgtcgctc ctggcgggac gccgcgcgct cgcgcccggg actcttcgcg 180
 gtgcttgacc tcgagcccgg gtttgctgag ttcacacctg gcgccgaggc gacagcgtgg 240
 tggacgccct cctttcagcg ccgtgatgac gccatggtgc gctttgacag cacgttcgctc 300

gaggtggagc tgcgtgagat ccatgtacac cactgtttcg acgactcgct cggettccggc 360
 ggcgagaggt ctgctagact tagtatcctt tcgggtcaaaa ctagcctggc agtaaccgat 420
 cgatcaatgc ttattgtcgg agcatgct 448

<210> 41101
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E4

<400> 41101

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 ggctgtacaa ggaccgctcg ctgagcaaca tcttcctgat gaacaacggg cgggtacatgc 180
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 agcagtcgac caacctgcgg cagtaccaca agaactacca gcgggacgcg tggagccgcg 300
 tgctggggct gctccgcgac gacggcgtgc tgacggtgaa gggccacgtg cagaagccgg 360
 tgctcaagga gcggttcaag cagttcaacg ccggcatgga cgagatccac cggacgcagg 420
 gcgcatgggt cgtcagcgac gagcagcttc agtcggagc 459

<210> 41102
 <211> 470
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-E5

<400> 41102

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 ggacgtcgtg gagggtaggt ccatggcatc cgccgatgca ccggaggcgg cggccgatgc 180
 tcccgtcct agccccgact ccgcctcatc ccagactca tcgtcagagg cgccctccag 240
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caaacacatg gaatgtgctt gcctaattat tgtttatttc tttatttatt atatgtctct 420
ctcggttgat tgttattttt cttaatgcat gtaatataat ttggtatacc 470

<210> 41103
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D2

<400> 41103

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gaaaaatgga cagtatgaca tgaagctact agctgttgac ataccaatgg catcaagtac 180
tgaccagtgg ctgttcctcg tcagtgatga acaagagtac aacgtgggag gaggcttgat 240
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tgaagaggaa gcggaagcat tgatgcgcca ggaggaaagg ctgcgccagg cgggtgaaga 360
gcgtatgcgg cgcgaggaag ctgatagcct ggataaagct acgtgacacg acgtactgta 420
ctgactt 427

<210> 41104
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B9

<400> 41104

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catcgacatg aagtactgcc ccaacaagtt gtgtactgcc aacggcgctt ccaaggtcac 180
cgtcaaggat gtcaccttca agaacatcac cggcacctac tccaccccgagg aggccgttag 240
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gtatagcggc accaacaaca agaccatggc tatatgcacg aacgccaagg gcagcaccaa 360
gggttgccctc aaggagcttg catgcttcta gaccctccat cgactgaccc atctctctag 420

ttataattct tctctcgtcc ttgcattg

448

<210> 41105

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C1

<400> 41105

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gtgcattcgg acatatactc atgagcatca tcacgtgctc gcgttggcct accatgtcca 120

actgatctgc catctggtct ataacgtgca tgattacaac gaggctcagt attggacagg 180

tatacgtatg ggctttcggg tccgactgga acacagcgct cagctattga caggatatgcg 240

ccatcactcg atggaacgaa cacatcacga tcgaggagct cettgcctga gcagtaccgg 300

ttcggacaac ctggatcttc cgggtggcga tggcctcacc actgatcgct ggaacttggc 360

ccttagattt gaccagcaga cgtgcaaccg atttcttgag tccggtggag cctaaacct 420

atctacggtc taactttatg gatcctacta gtcgtttctt c 461

<210> 41106

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C10

<400> 41106

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tcagtcgccc atggcggatg aggaggtcac tgatccaaag gcgctcctag aggatcgttc 180

aaaggctaag tgtgtgtcgc agtggatga ttatcagaaa tgtgttaaaa ggattgagga 240

cgatgagact gggcacaagc actgtaccgg tcagtacttt gattactgga aatgtgttga 300

caagaatgtt gcagagaaac tctttgagat gttaaaatga caaatcttct ctccatttat 360

ccacctaaag ttggaataa ttgtaccact tgggaggcct atagactatt aaggcactta 420

atatttgtca gagaa 435

<210> 41107
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C11

<400> 41107

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 aagagggcgg gcaggaccta cgtgcttgag taattcacgt gcactacatt aaccatccga 180
 taatgtccag caggctttca tagcctcatc gccaaactgc atgttgacgg cagcacgtgt 240
 aacattggcc tttgggacac tgttaggta ggaacgttac aacatactga gaccactgag 300
 ctatcgctga actgatgtgt ttcttctggc tttctcactg atcagtattg ccctctttga 360
 aaatgtttcg aagaattgga tacctgaact gaagcattat gcacctggtg tgccaattat 420
 tctcgtaggg acaaagct 438

<210> 41108
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C5

<400> 41108

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 gtgcaggatga cggcggctcg ctaccggaga cgggggatac ggcggcatcg cccccctcgg 180
 cccctcctac atccacggcg cggcggcgcc agcagccggc ctgcaggatt ccacgtcgtc 240
 catggcgctt gtcgagatgt gtgggcagcc gtgcagcggg aaaacagcag ccgacacttg 300
 ccttgctgtg gcgctgcact cctgctaacc tgacctcact gtccgaatca tcgatgagtc 360
 atcccttcat ctcaggcgca acgatagcta caaagatatg gttgtggaga aaa 413

<210> 41109
 <211> 457
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-027-Q1-K1-C6

<400> 41109

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gattacctct gtaacatgga tccgtatgca attctcaagt gccgttcaca ggagcagaag 180
agcagtattg caactggaaa aggaactacc cctgagtgga atgaaaactt tatcttcact 240
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gatgactttg ttggtgaagc aacgattcca ttggaagcag tgtatactga aaggagcatt 360
ccaccaacac tctataatgt tgtgaaagggt gaaaaatact gcgngngaaat caaagttggt 420
ctcacattca ctctgagga tactcggcag cggggtc 457

<210> 41110

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-027-Q1-K1-C7

<400> 41110

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gaggagctcc gacttagagg agttcgaggt ggaggaagcg gtggccatgg agtcgcagac 120
tctccgccac atgatcgagg acgactgcgc cgacaacggc atcccgtcc ccaacgtcaa 180
ctccaggatc ctctctaagg tcatcgagta ctgcaacagt cacgtccacg ccgcccga 240
acccgctgac tccgtgcct ccgagggcgg cgaggacctc aagagctggg acgcgaagtt 300
cgtcaaggty gaccaggcta cgctcttcga cctcatcctg gctgccaaact atctgaacat 360
caagggattg ctggacctga cctgccagac ggttctgac atgatcaagg gcangactcc 420
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<210> 41111

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C8

<400> 41111

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actgcaccaa tgctgtgagg tcatggtttt cgtgtgatgg cactcttctt cctccccctc 180
taggccagcc ccagccactc tttgtgttcg ctggttgaaa cttttagttt ctccatctca 240
agcttttacc taaggttgtg catgttgaga tgccatggaa atccattttg ctgattattt 300
ggtttgtggt cggttcacia cattacatgt gcaccagggt ttgctggggt atcactatat 360
aatgtttgtg tagtctagaa aaaaaaaaaa aaatacatga caataaatac tgtaattgct 420
ttacaactta gcttgagaat 440

<210> 41112

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C9

<400> 41112

ggcaaccagt gtcggtgaga agaatgtcct cttttttgac cttggagggt gtaccttcga 60
tgtctccctc cttacaattg aggaaggat ctttgaagtc aaggccacag ctggcgacac 120
ccatcttggt ggtgaggact ttgacaacag gatgggttaac cactttgtcc aggagttcaa 180
gagaaagaac aagaaggata tcaactggcaa cccgaggggt ctccggcggc tgaggacctc 240
ttgtgagagg gccaagagaa ctctgtcttc cactgcccag accaccattg agattgactc 300
gctgtacgag ggcattgact tctactccac catcaccgt gccagggttg aggagctcaa 360
catggacctg ttcaggaagt gcatggagcc tgttgagaaa tgctgaggg atgccaagat 420
ggacaagagc agcgttcatt atg 443

<210> 41113

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-027-Q1-K1-D1

<400> 41113

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cgcttctgggt ttcgacagct gataagcagc taatagtcta cacgggtccg gctccaagta 120
ccccgtaggt caatccatta gctccccggg gcttggttgg aaaattgtaa tggagatcag 180
cgctagctat cttgacggcc caactgacag tgagctcgga gacgacagta cagataatgc 240
acgttagggc acgggcttct cttgccgtga gcatggcgct gctgtacgta gaggtccaa 300
tggattgtgc tgtaatacaa gactgagact ggaacctgaa atgggcgaca tgtgcaccaa 360
aaggtgaaga gcccgtcgc tgctggaaaa ctctnctgta ca 402

<210> 41114
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D10

<400> 41114

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catgggtggtg gaaaggctgg gcgactacct gcttgaacag ggcagtgaac tactacgtac 120
cagctggaat gcatgtcgac gacgatggtt tcgagtttcg acttccaata atagtaacaa 180
caaagcaaag gccttctctc cggcgatatt gctttggctc ttctctcca cgccataaga 240
tatctagcaa ttggtcactc gccttaatta gttcgctttg cttttgaggt tgattcgacc 300
attttgctgt agcgtgaatt gcatgcatgg acatgcaacg ctccaatggc ccttggaatg 360
tggaattttt tttccattt tctggatttt tctataaaa aatgaactgg ttcttata 418

<210> 41115
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-D11

<400> 41115

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gagctgctca ggacattgct cttgcagatc tggctccaac ccaccccatc aggcttggcc 120
 ttgctctcaa cttctcagtg ttctactacg agatcctgaa ctccctgat cgcgccctgca 180
 accttgcaaa acaggccttc gatgaggcga tctctgagct agacagcctg ggagaggagt 240
 cctacaagga cagcactctg atcatgcagc tcttgccgga caacttgacc ctatggactt 300
 ccgacaccaa cgaggatggc ggcgacgaga tcaaggatgc tgctgccccg aaagaatctg 360
 cggaggggtca gtaagatgga ttcagtctca cgacctgctg ctgctgatgt tgaggagtga 420
 ccagaaccag aaccgtcgtc 440

<210> 41116
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-027-Q1-K1-B8

<400> 41116
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 gtggtgctcc tcttgccgc cgtcgcggtg gcgcgcttg cgggggctgc gcgtgtggat 120
 gtcgtggagg gcaggcccat ggcgtccgcc gacgcgcctg aggcggcggc tgacgcgccc 180
 gctcccggtc ccgactccgc ctcatccccg gactcgccgt cggaggcgcc ctccagcagc 240
 agtcatccg actagccgcg cacaacgcag ttcttgatcat gatctatcta gcanataaaa 300
 agatcatatg tctcgcttga ttctctggaa taactaatag tatatatgct gcgcccggat 360
 gatataataa tatgtgcatc aaatgcgtgc ggcaaacgca tggaatgtgc ttgcctagct 420
 agctaattgt tgttntttt 439

<210> 41117
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A3

<400> 41117
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gtgccttttc tctaattctt tcgttgcttc ttgtaccaca agtttttagca gtggtattca 120
aagatcgggt cacaataaaa tctctatgcg catatgggtg gcagaggaca ctggtgaagt 180
ctctagttgg tggtttcatc tgttgttttg ttgaactcgc caggctgggt cttgtatgg 240
tattgctact gttatatgct atctatttag tttttatacc ttggttattc ggtcaccta 300
ttactgaaga tggtagcctg acttacatga cacataaagg ctggattctg aaaggacca 360
gtagtagcaa cgaagtagtc catgctggga ttccagatgt catggtcatt ggtctacctc 420
acctttgctt tgtgttagta cccaccatt 449

<210> 41118

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A5

<400> 41118

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aaagaaaata aaaaaaatgg gaactgccaa aaaaaaaaac aacaaataaa aaaatatact 120
gctaaatttt gataatacac ttagcaattc taaataagac agattaacac cagaagaagc 180
aataatgatt gagctagtta cccttacagt tttcatggaa tataatagtc cttacgatac 240
ttgactaact tgtgcaatat tgaactctac tacgccaccc tattccaaac gattattagg 300
gaatatatca ctttgacatc cattgcatct c 331

<210> 41119

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A6

<400> 41119

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aagtggatca atcaaactct aactaatct tctagagagg atcgaaacag ctcaaattga 120
aaatggtgaa cttgatagcc taccctcgaa gcttcaagca actgtttcac ttctttctcc 180
atcggaagaa atcattgaat ctttgaagaa aacatttgat cagaatgttc gactaattgt 240

gagatctact gctaattgtg aggatttggc tggaatgtct gctgctggac tctatgaatc 300
aattcctaata gtcagtctct ctgaccctag atccttttga gctgctggatg gacaggtttg 360
ggcatcatta tacacaagga gagcaatcct tagccgtcga gcagccggtg tacctcagag 420
agacgcatag atggcggttc tcgtgcaaga aatgct 456

<210> 41120

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A9

<400> 41120

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gacagaagaa gctctgcttg agaagcaccg ggggtgctatc acttccatac attattcacc 120
agatgtttct atgtttgctt ctgctgatgc caacagggaa gctgttgtgt gggatcgggc 180
aagtagagag atcaaactga agaacatgtt gtaccacaca gctaggataa actccctggc 240
ttggtcaccg gacagtcgat tgggtgccac tggtcactg gacacctgtg caattgtcta 300
cgagatagac aagccagtag ccagtcgct cactatcaag ggagctcatc tgggtggagt 360
tcatggttta accttcttg agaatgatac tctggtgact gccggcgagg atgcttgcat 420
tcgtgtttgg aaggtggtgg agtaat 446

<210> 41121

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B1

<400> 41121

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aggcggggag cgagacacct ccacacgtgt ctcccccttc cctccccctt ccgttccttc 120
tgtagctgag cccgaccgaa cccccctacc ccgtggaatc gtcttccgat gcggcgccga 180
taggggctgg cggaggagcg gaatggcggc gcacggcgag aagcgtcgcc gtacggcaag 240
ggcccacgag aagccggaag aggaggagga ggaccgcac tcggatcttc cggacgtact 300

gcgcctgcac attctgagcc tgctgccgtt caaatcgacc a 341

<210> 41122
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B10

<400> 41122

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agccgtctgc taggtcttgc acctccgggc tctgggcatg gctgccgaag ctggcccaat 120
ctccaaggtc ctcatcgteg tagcgatgca gacggaggcg atgccgctcg tccacaagtt 180
caagctcgtc gaggcgcccc cccacgaatc cacatttctt aaaggtgccc catgggttag 240
gtaccatggc aactacaaag gcctccacat tgaccttgta ttgcctggaa aggatgctgc 300
tttaggagtc gacagtgttg gtacggatc agcagctctt ttgactagtt tttccattca 360
aacactgaag ccagacctta tcattaatgc tggcactgct ggtggcttca aggccaaagg 420
ggcaagcatt ggagatgtat t 441

<210> 41123
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B11

<400> 41123

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gcctgccaaag ataaaggtaa tggagtcgtc acgcagggtc cagccggccg tcctcctgct 120
tctcctgctc attgtgtcca ccgatatggc acaggcaagg gaatgcgaga agtacagtga 180
gcgatttggt ggggcatgca tgatcgaga caactgcgcc aatgtgtgcc gcggtgaggg 240
cttcttgccc ggcagggtga gcaccttccg ccgccgctgc atctgcacta ggcagtgcata 300
aacaagatcg ctcgatcgct cgccatgcat cgacaacctt ttcttaataa cgttcattat 360
ctcgttctta tttatgacga atgtcatgta tgttctggtg actgtcatgt atattctgat 420
gactgtcatg tatcttggtc at 442

<210> 41124
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B12

<400> 41124

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agttccttcc atgctacctt ttaacaatct tgcttttggc gcaacatttg gtggtccagc 120
tagtctgaag cccatgacaa tggctccaat gccaatggcc atgcctatgt caccagctcc 180
tctcaciaag aagccaactc cagcagcagc aactcctctt tgtggtaaaa gtgataccga 240
taacttgaag atgggctaac aggtgctgaa tgaagatata tcaaagttgc aatctcaggt 300
taataaactg aaacaaaaat gtgatgccca agaagagcaa ctgcagaaaag cggaaaggag 360
agctgaacat tctgcctcta cagctgcaga agagtcttca aggcgtaatg gtgtcttgga 420
gttcattagg ttccttgaca atg 443

<210> 41125
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B4

<400> 41125

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aggactgccg ctccggcgcg gaaatggacg cgctcgtagc acgcttgaag ctccaccagc 120
cgtccccatc cccctacgac cccgatccgg ccgcgggccc cgtccccgcc accgccggcg 180
acggcgagct gttccggccg cggagagctg ccgtgcttgt ctgcctcttc cggggagacg 240
gcggcgagct ccgcgtcatc ctactaagc gctcgtcctc cctctccacc cactccggtg 300
aagtttcatt gccaggagga aaggctcagg agggatgatg tgatgatgta gcaacagcgt 360
taagagagtc aaaagaggag attggacttg atccagctct ggtaactggg gttgcctctc 420
tggaacactt cttggccaag catcttc 447

<210> 41126

<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B5

<400> 41126

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gaccactgtc tccatccagg tctttgaggg tgagcgcagt atgaccaagg actgccgtct 120
tctcggcaag ttcgacctca acggcattgc gccagctcca aggggcacac cccagatcga 180
ggtgaccttc gaggtggacg ccaacggtat cctgaacgtg aaggcggagg acaagggcac 240
gggcaagtcg gagaagatca cgatcacgaa cgagaagggg cggctgagcc aggaggagat 300
cgaccgcatg gtgcgggagg cggaggagtt cgcgaggagg gacaagaagg tgaaggagcg 360
gatcgacgcc cgcaaccagc tggagacgta cgtgtacaac atgaagaaca cggtgggcga 420
caaggacaag ctgcgggaca agc 443

<210> 41127
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-B6

<400> 41127

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ctggcttccc gagctccggc gactccagct gaaggcccca gttatcgtgg tggggtgcaa 180
gctggacctg agggacgaac aacaagttag ccttgagcag gttatggcgc ccatcatgca 240
gtccttccgc gagattgaga cctgcattga gtgctccgct cttcgccaga tacaggtgcc 300
tgaggttttc tactatgccc agaaggcagt acttcacct actgcccccc tttttgatca 360
agaattacaa tctctgaagc ctcgatgtgt gagagcgttg aagcggatat tcattatatg 420
tgataatgac aaggatggtg ctctcagtga cgtggagctc aatgaat 467

<210> 41128
<211> 368
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G6

<400> 41128

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gtctcgtttc tcccttctc agctgctggc cccctgctg cagccattgc cccgctcctc 120
gaggtcaa at ggcccctgcc cccgctctca ccgccacatc cgtcctgaag cgatcccacc 180
taccggcgt ccaactcgttg gccggtcgcc ggcagccggg gcgggaccgc gtctcgggtgc 240
tttctccagc gatcccgccg ccccgcttt catggcagca aggatctgga gtggttgcta 300
agaggctcct ctgggcgagt gcgagtgggt ccttcgagaa agataacatc ggggaggacg 360
tggtgttg 368

<210> 41129

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G7

<400> 41129

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gaagatgaag aaagtggcat catcgtcagc cgttctcttc gtgctagccc tgacgctagt 120
ttgtgccccg ctgatagcag aggcaaagaa gaagagagtc gccgccgccg ccgccgagga 180
gaagaagggtg caggacaact tctgctcgac gctgtgagag ggcaggaagg ggatggacct 240
gggtgtgtgc aaggagtcct gcgacctctc acagcgctcc aacctggtgc tgtacggccg 300
gatccagtgc aaggggcaag tgcaccgagc agaatggcat caccgggccg cagatgaagg 360
tgtgccaaga ggcgtgagc aaggacta 388

<210> 41130

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G8

<400> 41130

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gaaagtggca tcatcgtcag ccggtctctt cgtgctagcc ctgacgctag tttgtgcccc 120
gctgatagca gaggcaaaga agaagagagt cgccgctgcc gccgccgagg agaagaaggt 180
gcaggacaac ttctgctcga cgctgtgcga gggcaggaag gggatggacc tgggtggtgtg 240
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caagggcaag tgcaccgagc agaag 325

<210> 41131
<211> 130
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G9

<400> 41131

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ggcgttttta ccatattcga agcggacatc aaagagcacg cacgtcacga cttttacttt 120
acgctcaagg 130

<210> 41132
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H1

<400> 41132

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ccgggcgata tcagctcatc gatgcgtcct atcacacaca tatcattacc gtcctcttc 120
ctctcctatg cttgtcctct aactcattgg cagaagagaa aaaaaaagtc cttgttgagt 180
tgttgatcg ggttctgggt gtgactgtta ctggggtttc cttgtccggt tcttgattcg 240
cgcaaggaca gatttgccgt cctctcgggt tccgccgggc ggtgctgaaa tcctccttcc 300
ctgttcct 309

<210> 41133
<211> 389
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H10

<400> 41133

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tgcacgaggag agaagctcga ggtgcacgag ttcgacgagt ggatccgcca ggtctacgtc 120
gcgcccgaag gcaccatccg ttacgacgac ttcacccgcc gcacgctcgc caaatgatcc 180
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ttcgtctccc atccgctga tttcattttg gttcccttct atggctggct catttgaatt 300
caatctggcc tccctttcgt tcccagactg ctcggataaa acggataatg gttgctgtgt 360
gttattaacc ctttcacggg tttttttttt 389

<210> 41134

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H11

<400> 41134

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agcattaacc aaaggatcag agggccaaag ctaacatgga caagcctgtg atgaaccaat 120
gagtatctcc agaagctttc gttaaagtgc aaccaaattc gatatcactt tgatctgggt 180
agcttaaaac caacgctttt aat 203

<210> 41135

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H12

<400> 41135

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gaccacagag ctgggaagat cgtggtggag ctgaatggaa gactgaataa atgtggtgtt 120
attagcccac gttttgatgt atgtgtaag gagatcgagg gatggacggc gaggtctctt 180

ccatcttgcc aggttggtta catcgctcta acaacttctg gtggaattat ggaccatgag 240
gaggcccgcc gtaagaatgt tgggtggcaag gttctaagtt tcttttattg aaaatggtgt 300
tttttgagcc acaaatgcgt tcaagaactc tgttgatggt ttgagggttg tt 352

<210> 41136
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H2

<400> 41136

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tgcgggcatg atacgctcat cgatgccgtc tatcacacac ctatcattac cgctcctctt 120
cctctcctat gctatgctct ctaactcatt gtcaaaatag aaaaaaaaag tccttggtga 180
gatagatgta tccggattct gcgaggtgac ctggtactg 219

<210> 41137
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H3

<400> 41137

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aagtgggtct tatgtctagc tatggcaagg ctgctgaata tgcacttcaa aaccagccaa 120
ttgttaatgc tgccattgct ggcaatgaca tcatatacag agactacgta tacgtcaccg 180
acgctgctgg cacttccaag ggcccagtggtg tgccctggtat ccgagatgct cataccatga 240
actttgctga cattgagaaa gggatgaa 268

<210> 41138
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H4

<400> 41138

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 ttgtgttagc gccgggtgca aaaaagccaa acggctgggc ctaccggttc ccgagcacca 180
 acacaacaat tctataccac tggatcatcaa cgctctgtga tttggagccc ctgaacccat 240
 cataccgagc gaccagttat gccatgcacc tggaccgccc gcctgctttt ctgaagagca 300
 acctccacag gctccatg 318

<210> 41139
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H6

<400> 41139

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 gtgcatgaca caagctgcgc ttgcgggtggg ctcaactttt gatcaagttt tgattccagc 120
 ccgatattgg gtcagttatc ctgagatgga tagactggct gatgcgactc cagtgattct 180
 tactacaaac atatcagaga atttcttgtt catgccagag ttgcttaccg actagatcaa 240
 tgagaaatcg aggctcttaa ttctctgctc tacatct 277

<210> 41140
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H9

<400> 41140

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 ggtgttcgtg ctactcgccg ggtgcctccc gttccacaac gccaacctga tggagatgta 120
 ccgcaagatc agcacatccg acatcaagta cccatagtgg ttatcccctg aactccagcg 180
 ggtgatgccc aagctttctt aaccgaaccc aaacaacagg atcacgatcg agaagctact 240
 cgagcaccac atgggtcaaga aggagtacag gccggccgct atgctggcac atccgcacgg 300
 cttcagcagc ctcaatgatg tccaagtctg cttcagtaac accgaccaca aagaca 356

<210> 41141
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-027-Q1-K1-A1

 <400> 41141

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 ggcacatag agtctgtatc ggggtgaactg gaaaaggagc tccacacata tggagaggac 120
 acgtgaaaag cacgctacta cactggatca tctggaccgg gttgataggc atgaagagtc 180
 acccctgatt gagcaagcta ttcaaacacg catagtggac gattaagaac cttgacgac 240
 atgaggcact ttgcgagata caactcgata ggcttcacca tgccaaacac tgactcgaga 300
 aaaattgact ttcacagacg ttgcgagcaca ataatgctgt accggaga 348

<210> 41142
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-027-Q1-K1-A10

 <400> 41142

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 ctgctccccg tgccggccac ctcccaggag gacgaggtcc tcctcgccat ggccgagtcc 120
 gacctcgagg acaagttgaa tgagatccgg aagaccaaca gccacctgat tatcatcggg 180
 aagcccacag gcgacaccaa ggaggagtat gacgctgacg tggaggacga cgatgcagac 240
 aacgtcgagg agtctgatgg cgatgacttc gaccaggaga ctggttgacc caggcggctc 300
 cccgctcccc cctgcttcg ccggcatcct tgagcgtcgc catccccact gccagtcctg 360
 tatttcgcaa tccctgagtc gctcctgcta tctagatgtt ctgtgttacc ctattctgct 420
 gctgctgtct gttctcgga 439

<210> 41143
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G5

<400> 41143

ggccgacatt ggttttttct atttgcaaga ttatgtactg ttgatcaaaa taacagcact 60
acgcatcata caacatgctc taggagtagg atacagtaac acagcagcag aacatccaac 120
ccaacattct gccaaagtct gatcaaacgc caaaacctgc aacatgcgat ctactgaccg 180
tacctcaagta actcacccca caccctacct tgatgccag agcagcttac cctctacaca 240
cactactgcg cgaggcacgc accgaccaca cggcgagcta attatgtatg agtaagtta 300
gggactgggc ttac 314

<210> 41144

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A11

<400> 41144

ggaaaatcaa gcgaactccc tccccttgat gttccactcc caggcattag cattccctca 60
cgtctaccag attttgtaga gccatctaag acaaaagtca ctactcttcc aaatggcgtc 120
aagatcgctt aggagacatc atcgagccca gcagcatctg tgggtctgta cattgactgt 180
ggttccattt acgaaacacc tgcttcatct ggagtatcac atctgttgga gagaatggcc 240
ttcaagagca cagtgaatcg gactcactta cggttagatc gtgaggtaga agccattgga 300
ggaaatgtct ctgcatcagc ttcccgtgaa caaatgagct atacctatga tgcattgaag 360
agctatacac cagaaatggt tgaagttctc attgacagtg tgaggaatcc agcattcctc 420
gattgggaag tcaaagagca gc 442

<210> 41145

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A12

<400> 41145

atccgatcat gctacctaag atgcgacgac gttactctat cagcatgaca gcagat 56

<210> 41146
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E6

<400> 41146

tggtaccttt ggggaggcga ggaaggacac gaggtcggcg cggttcgtgcg tgcccttctc 60
 actgcacgcc gatccccctc tccgaacccc gccgcctgcc gcagatccga gggtcacgcg 120
 cagccatgat ctctccagc aagctcaagt ccgtcgactt ctacaggaaa atacctaggg 180
 atttgaccga ggcataccta tctggcgctg gattatccat tgtagcagca ttagcaatgg 240
 tttttttgtt tggaatggag ttgagcagtt acttagcagt caatactacc acatctgtga 300
 tcgttgatag gagttcagat ggggagtttt taaggataga tttcaatatg agctttcctg 360
 cgctttcatg tgaatttgca tcagttgatg gtagtgacgt gctgggaaca tacagattga 420
 acataacgaa a 431

<210> 41147
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E8

<400> 41147

cgccgctttg gttcctgttt cccacagct cccaactctc tataatctcaa tctcttgggg 60
 atgtaccgtt tcttgctttg acgcaaacca catcaatctg tggccgttgt ttccatcgga 120
 gctgttgagg tttgtcttct tctcggccga agacatggcg gcggcgaaacg gagctgccgg 180
 tgcggtgctg ttcagcgagg aggacctgat ggaggtgagt ggggtgcgct ggggagagga 240
 cttcgtggag gtgacgtgcg gatgcaccag ccacc 275

<210> 41148
 <211> 251
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E9

<400> 41148

gtgagagaaa ccactgatct gacctgctgt tgttcatctg accacatgcg ttcattgagg 60
cggacgatta cctggacccg acggcgccca aaaccttcca tggaaactgc ctcttacctc 120
aaaccaactg ccaaatacta tgtattccac ccatatttgg gcacaacaca gcccataggt 180
cccataacac cgcattttca cagttcaagc cagaggagat taccaacatc attaaagact 240
tctactagcc t 251

<210> 41149

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F10

<400> 41149

cagaaccgca gaagtgcagc agaacgatcg gatctagcag aattctctca acctcatcgg 60
cggcggcgaa gagcgtgcgg agcggagatg gcgacaagcg ggtggaggag gagagcggct 120
gcgcgggcct cctggagcca caccacggtg tacctgtggc tcgcgctcgc cgcagcagca 180
ctgacgcgcy cccaggctaa gaaggaccta acggagggtta cccacaaggt ctacttcgat 240
gtcgagattg acggcaagcc cgcaggtcgg attgtcatgg ggcttttttg gaagactgtt 300
cctaagacag cagagaactt ccgagctctt tgcacaggag agaaaggaat tggcaag 357

<210> 41150

<211> 87

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F11

<400> 41150

gtgaaacaca cggatgcttt ttctaccttt ttggaattgg acttcatgca cttcatcagg 60
ggcattatta acaatctcga ggggcac 87

<210> 41151

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F12

<400> 41151

gtggagcaag ctgttggaat gccatcagtt gcccaaatat tcaaggcca tagtgaagcg 60
tgctttcggg ataatgagag tgggtgtcttg agagatttgt cctccatgcg acgattagtt 120
gttgccaccg gaggtggtgc tggtatccga ccaattaact ggagatatat gaagaggggc 180
ctatctgttt ggtagatgt gcccttggt gctcttgcta ggcgtattgc taaagtggga 240
actgcctctc gtctcttctt ggaccaacca tctggtgatc cgtacgcaat ggccttttct 300
aagctcagca tgcttgacaca gcaaaagggt gatgcttatt caaatg 346

<210> 41152

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F5

<400> 41152

gcgcgaacgc gtgcatgcgc agacgttgag gtcgaggagc acggtatctc tgagcttcat 60
cagagagcga cccgtcaccg tcacgcttgg ctcgaagccg agaagagtgc cgggccggga 120
gaccggacga taattgatcc gtagcagatt cgctaattggc ggagacggcg gacatggagc 180
ggatcttcaa gcggttcgac accaacggcg acggttaagat ctcgctgtcg gagctgacgg 240
aggcgctacg gacgctgggg tacacctatg tcgacgaggt gcagcgcgatg atggccgaga 300
tcgacaccga cggcgacagc tgcattgact tcaacga 337

<210> 41153

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F6

<400> 41153

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aagaatgcag taattctgaa tggtaaaaa atttagaaga ttatagaatt atctgcagaa 120
taccaatccc tcagtgaaga gcacagcatt gaagcccaca gcagagttct acgacgcaga 180

tgcagtcaat aaaaacccca atagcacaaa agattaggag actgtcgatg cagctaaaga 240
 agtgtggata taggcatgga gcacctgcac ctgcaacacg ccaacggtac ggacaaacca 300
 tgagcttgag gccatttcac gtcctttcat aagcctcggc tagtgccggc gcgcgcaggg 360
 tatcttttgt tccttttttc taacagtaat ttacgtg 397

<210> 41154
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F7

<400> 41154

tttctgctgt gatggttgcc ttggacaagt catttttacc ccactacgga aatccagcga 60
 cgagttttac gcggcgatgc ggcacaacct gagcagcgtg aaggacactt ttgaggaggt 120
 gaagcagctg gaggagaagg ccaatgctgt catggcggtt gcttgagcgg cgattgcagc 180
 ggcgctgaac accattaata acgagacgca tgctgagctg gagcatcaga ttgcttgagg 240
 ga 242

<210> 41155
 <211> 179
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F8

<400> 41155

cggacgcgtg ggccgaccgc gagcaagcgg accaaatcct gctccatatt ctatcgcggtg 60
 cacgcattctg gccgcctcga ccctcggcgg cgggcggtgc tactacaacg atgatggggc 120
 tggagatgga ggcgatggcg ggggccatcg gcgtgtcggt gcccggtgctc cgggtcctg 179

<210> 41156
 <211> 273
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F9

<400> 41156

cgcacagctg ctctaaaccc taggagcgtg cttgaacagt ggcggatatg ttatagcgag 60
 ggaccctttc gccgtatcga aggtctttgt atatcattac taccaaacgt tcgataccaa 120
 ccgtgctggg cttgatgggc tgtaccatca gactctcatg ctcacctttg agggtcagaa 180
 tttccatggc ccgtactaca ttgacggaac gcttggatct ttccattacc aggcctgtga 240
 gcatcatatc tttaactggt gactgccatc cat 273

<210> 41157
 <211> 131
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G1

<400> 41157

ctcatgttgt ttgttcttgc atgaggaatc taccactaat attgtcctca ttgatgcata 60
 catgtgtgaa ctcaaagcat tgtgcatgct atacttattt atcaaacaaa tacaaaagct 120
 tccttgtacc t 131

<210> 41158
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G10

<400> 41158

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 tacgttggca acatattcga ggtgcacatc atagaccacg ggatccatga cttctacttt 120
 acgctcaacg aggccttgac ttacaactac acgctccaca ccatcgccgc actaaagtac 180
 ccgctctgca tacgctttat tgcgacgatt cacggttacc cgctcttcga ctacaataac 240
 ttgcctatc ataaggggtg caccacctat aatacctcac atggcttggt aataaccatt 300
 c 301

<210> 41159
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G11

<400> 41159

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tgcgatgggtg gcgcgctcga ggcgacgtca ttcgtctcgg cagacatggc atgatagcca 120
cgagaggggtt ggcagcttga tgacaagcag tctgacaaga aaatgtaagg catattaact 180
ggagacttct ttacgtttat atgatgatga atgagaaagg atggacagca tgggactgca 240
cgagaacccat cagacaggca tctatgccta ttgattaatg aagcgatgag atatttacca 300
aaaagctata atttcctta 319

<210> 41160

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G12

<400> 41160

caaaaacact cgattcatgt ggcttctttt atcaagagtg tattcaacga caacatcagg 60
agggttaatt gcttgcttga ggcgatctca ttttactctg ccaacacctc atgataacat 120
aagagacgac cgggcgcacg cttacaactg ctct 154

<210> 41161

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G2

<400> 41161

gagaaaggag ggcctgaggc actctcagtc ttatactgac accaaacgag ccaaacaaca 60
atgtgctcag agatctcgtg tccggaagct ccagtatatt gcagagcttg agagaagagt 120
tcagtcctta cagacagagg gaatagaagt aactgctgaa atggattttc tcggtcagca 180
aaatatcatg ttagacttgg aaaatcaagc cttgaagcaa cagcttgaga gtgtatctca 240
ggagcatctt attaaacggt atcagcaaga gattgttggg agggaaatt 289

<210> 41162

<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E5

<400> 41162

cgacgcgtg ggcggacgcg tgggcccgtc atgtacgtcg ccatccaggc cgtcctgtct 60
cgggagtgcc agtggtcgta ccacaggtat cgtgctcgac tcgggagatg gtgtcagcca 120
cactgtcccc atctaccagg gatacgccct cccccacgcc atccttcgtc tcgacctggc 180
tggccgcgac ctcaccgact accttatgaa gatcctgact gaacgcggct acttcttcac 240
caccactgct gagcgggaaa ttgtcagga catgaaagag aagctcgctt acattgccct 300
ggactacgac caggagatgg agactgccaa gaccagctct tttgttgaga agagctacaa 360
gctggctgac tgacaggtca ttacctttgg tgctgagcgc ttttcgtgc 409

<210> 41163
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G3

<400> 41163

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gaggacaata aacaaagcag aaaaccatac aggcaatgac aggttgtgctg aggggttgtg 120
tacttgtgtg agaggctgcc gcgacgtgt ggaacttagc ggggtgttgc atagttcata 180
aacaattcgt ggagaaccaa tctagcaagc tagtagccta aaagtggaga tagccgatga 240
ggtcttaaga tgcaactgaa gcaaaagagg ctactacatc aaggagcagt tcaaccactc 300
atttgatggc ataatccatt tgatgaggtc ttagatgcaa ctgaacc 347

<210> 41164
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-G4

<400> 41164

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 tggaggggag atggctgctg ctgatgtgga ataccgttgc ttagtcggcg gacttgccctg 120
 ggccaccatg aacgagtctg tggagaatgc cttcgcctcc tacggcgaga tcctagacta 180
 caaggctcatc accgaccgga agacagggag gtctcacggc ttcggcttcg ttaccttata 240
 ctactagaac ttgatgctag acgctataca gaacatgaac ggtaagg 287

<210> 41165
 <211> 243
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C8

<400> 41165

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 tgatcctctt catcttgtaa aggggtgctca caagctcatc ctgagcactg ctaacgcccg 120
 tggccgtgtc gctagcggcg atcatcttac tccatggctg agaaccacg cctgactagg 180
 tgggtgcctaa caggaacgtt tcctgcctat ctacgagac gagcataaac attcggagac 240
 atg 243

<210> 41166
 <211> 385
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-026-Q1-K1-C9

<400> 41166

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 caatggcctc caggctctcc atcgtactt gcaacggcga tgctggttgc gctgtttgag 120
 gttggtttgt gcaccacccc gctcaccttc cagggttgga agggatccaa gcctggccac 180
 ctgacctca ccccaatgt tgcaaccata tctgacgtgg agatcaaaga gcacgggggc 240
 gatgacttct cttttacgt caaggagggc ccgaccggca cctggacgct cgacaccaag 300
 gccccgtca agtaccctt ttgcatccgc tttgctgtca agtccggtgg ctaccgcatc 360
 gncgacgacg tcattcccgg cgatt 385

<210> 41167
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-026-Q1-K1-D1

 <400> 41167

 accacgcgtg cggttaattg tggaggggag tgtcatgtat ctatacagcg tactctagaa 60
 cgggttgcat gtaagcgcca tgtgagaccg tgagttctct atcacgcctg atcatggagt 120
 aacagcggtt ctaaaatgca tgttgacatt ggccagctga cttggtgtga tctagcacia 180
 ctatgaagag agtcatgaat ggcttgcatt atggcctcaa agatgtccat ttaatcct 238

<210> 41168
 <211> 123
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-026-Q1-K1-D10

 <400> 41168

 gtgaagaacg cgtccaaact ggctaccgtt ttcacgtaga agaacaagga ctccatgggc 60
 gcgggcatta actggctaga cggcgaccag atacgcacgg cgtcaacat ctattacacg 120
 atg 123

<210> 41169
 <211> 371
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-026-Q1-K1-D11

 <400> 41169

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 gcggccatca gctggctgga cgccaaccag ctgcgccagg cggacgagtt cgatgacaag 120
 atgaaggagc tggagagcct ttgcaacccc atcatcgcca agatgtacca gggcgcgggg 180
 gccgacatgg gtggcgccgg cggcatggac gaggacgctt cggctggaag cgggtggcct 240
 ggccccaaaga tcgaggaggt ggactaagcg gattgtgtca gtctcgtgtg tctgctgcag 300

tggctggctg gccagtcgc tgctcgattt attgtcatca tcgcggtgta tccgcgtag 360
aacctttttt t 371

<210> 41170
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D12

<400> 41170

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atgagaaggt tgctgctctg cacttgggca agcttggtgc caagctgacc aagctcacca 120
agtctcaggc cgactacatc agcgtgccga tcgagggtcc ctacaagcct gccactacc 180
ggtactaggc acacggcttg cagcttactc gggccgttgt gtgctatgaa gttegtaca 240
ctggcctgtc aggtatctgt tgcattatca tgcattatca tatacgcagt cgcgtagcag 300
gtttttcttat gggtatcgct tgagctgatg agggaggggaa g 341

<210> 41171
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D2

<400> 41171

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ctgcgtcggc tggagggcct cgccaagcgc ccccgcgctc agaccctcct cgccaacgag 120
atccgcaaca ttgaagctaa gatggcgaag gcaactgaac cgtcaccgga gccactagt 180
gcggttccg cgcccgcggc ggcggcggcg cggttctgatt tgagctacgc cacgttgggc 240
tcgttcagct gggaacagga caacgagaag atcaggatat atattcccct tgagggagtc 300
gaacaaggga aggtggaggc tactttcaag ccaacatcag tagatgt 347

<210> 41172
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D3

<400> 41172

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gggcccgggag ggcgtcgcg aggtggcgcg catggggctc gccggggacg ggtcggcgga 120
caccgcccac ctcaagtaata atgaaaatgg gcggttcatt tatggagttg cgagttctcc 180
tggtaaaaga gcatcgatgg aggacttcta tgaggcaaga atagacgacg ttgatggaga 240
gaaaattgga atgttcgggtg tatatgatgg tcatggagga gtccgagcag ctgagtatgt 300
taagcagcac cttttcagca atttaatcaa acacccaaag ttca 344

<210> 41173

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D5

<400> 41173

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atctgacgtg gagatcaaag agcacggggg cgatgacttc tcctttacgc tcaaggaggg 120
cccgaccggc acctggacgc tcgacaccaa ggccccgctc aagtaccccc tttgcatccg 180
ctttgctgtc aagtccgggtg gctaccgcat cgccgacgac gtcacccccg ccgatttcaa 240
ggccggcacc acctataaga ccacactcag catctaata gacctgatg atgaattata 300
tttcaaaaga gtcacctgg cgctcacgtt agcaagacaa tatttcttct atggttattt 360
tggggcgcca aaccaccaa gaaatatgtg atgctacatg tcccttatga tgccttggtg 420
tgttgggttg atattattac ataaa 445

<210> 41174

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-026-Q1-K1-D6

<400> 41174

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 atgctcattg gccctgctat gtacttttgt ctcatgggtg atggccagcc catcggtcgc 120
 tacgacgaca tgtgggcagg atggtgtgtg aaggatcatc gcgaccacct gagcctggga 180
 gtcaagactg gcctgccata catctggcac agcaaggcta gcaaccctt cgtaaacttg 240
 aagaaggaat acaagggcat cttctggcag gaggacatca tccncttctt ccagaacgtg 300
 accatcccca aggactgcga caccgtccaa aagtgtaca tctacctctc tggacaagtg 360
 aaggagaagc tgggcacgat tgaccctac ttngtcaaag ctctgacgc catggtcacc 420
 ctggatcgag gcctgggatg ag 442

<210> 41175
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D7

<400> 41175

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 ggtgctccct ctagccatcg actacctcac agatccctgt aagccggacc ccattaccct 120
 tctcggatag ctgtgccct accgacagga cttcacggga gcaagcctgg ggttgatcgg 180
 aggactcggc atggatcggg gcacgaaacc acgcccagga cttctcacag atcacactgg 240
 accgagcgt gagcgctgg aacttccctg ttcatgcgcg agttaggtgg accggagctc 300
 tccgtcgtgc gttgaacatc gctgtgct 328

<210> 41176
 <211> 172
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D8

<400> 41176

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 ggaaaatcta gatgccttgg atgaagctaa ctaagatttg catgacaacc ctttactga 120
 tcaagaacct gtactatgga agaacacata agatttctta aagaaatatt cc 172

<210> 41177
<211> 57
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D9

<400> 41177

cagacacgtg cgcctactcg tgggcaaact ctcacacatg aacaaatacc ttatcac 57

<210> 41178
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E1

<400> 41178

cacaagatac atgacagtcg tgtagctagc tcatgtatgc tcaacgggtca taatctagaa 60

catgtattaa gagcgcgacg agtgcctcaa gaattactat accggccaag atcattcatc 120

aacagcatgt cactttgcat tgtggccact tcaatctgga tcaagtgtgg tcagatcttt 180

tagtgattta acgcttatat tacttacaac aaaagataaa cccaccaatg cggacctcga 240

tgtaccgccc agttcagcag aagcgcacac cgagatgttc catctgagcc ctgctggcc 299

<210> 41179
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E10

<400> 41179

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agcagcaacc actgcacagg atgtcgtggc agacgtacgt cgatgagcac ctcatgtgcg 120

agatcgaggg ccaccacctg agctctgccg ccatagtcgg ccacgacggc gccgtttggg 180

cccagagcac cgcattccca cagttcaagc cagaggagat gaccaacatc attaaggact 240

tcgacgagcc tgggtttctg gccccgatcg gcctcttctt tggccccacc aagtacatgg 300

tcattcaagg cgagcccggc gctgtcattc gcgggaagaa gggatct 347

<210> 41180
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E11

<400> 41180

cttaattgcg ccaactgctcg ttatccttct tttgcattgc attgcaggtc gtacttgagc 60
agcagcaacc actgcacagg atgtcgtggc agacgtacgt cgatgagcac ctcatgtgcy 120
agatcgaggg ccaccacctg agctctgccg ccatagtcgg ccacgacggc gccgtttggg 180
cccagagcac cgcattccca cagttcaagc cagaggagat gaccaacatc attaaggact 240
tcgacgagcc tgggtttctg gccccgatcg gcctcttct tggccccacc aagtacatgy 300
tcattcaagg cgagcccggc gctgtcattc gcgggaagaa aggatct 347

<210> 41181
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E12

<400> 41181

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gcagcagcaa cacactgcac aggggtgtcgt ggcaaacgt acgtcgatga gcaccttatg 120
tgcgagatcg agggccacca cctgagctct gccgtcatag tcggccacga cagcgccttt 180
tgggcccaga gcaccgtatt cccacagttc aagccagacg agattaccaa cattattaaa 240
gactttgacc agccttggtt tttggccctc atcggactat tccattggcc caccaagtac 300
atggttatcc aaagcgagcc ctgctctttt atccatggga agaagggatt ct 352

<210> 41182
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E2

<400> 41182

cggacgcgtg ggcggacgcg tgggggcgtc cgagggcgac aacaagagga tgatcacgct 60
 caggggctcc gacttagagg aggtggaggt ggacgaagct gcggccatgg actcgcatatc 120
 tctccgccac atgatcgacg acgactgcgc ctacaacggc gtcccgatcc acaacgtcaa 180
 ctccaggatc ctctctaagg tcatcgagta ctgcaacagt cacgtgcaca ccgtcgtcat 240
 acccgatgac tactctgtct tcgagggcgg cgaggacctc aagagctggg acgcg 295

<210> 41183
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E3

<400> 41183

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 gcggctggtc ctcttctgca tctgcatgg tgagaaggaa gagtcaaagg gcatcgatgc 120
 gaaagcgtcc aggcttggtg ggtccttcga catcaccaag ttgggcgcct ccggcaatgg 180
 caagacagac agcacgaagg ctgtgcagga ggcatgggca tcggcgtgcg gcggcactgg 240
 gaagcagaca atcctcatat ccaaggggtga cttccttgtc ggacaactca acttcacagg 300
 cccttgagg ggcgacgtga ccatccacgt aggatggcaa tctgctggcg accacggacc 360
 taagccagta caaggcccat ggtaaattga atcgagat 398

<210> 41184
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E4

<400> 41184

atctggttta atcttacggc ctcttacggg agggctgagt accgggacta tcttgcgagt 60
 gcgtcgcagt tcacaacaaa ttggtaccgg agccactacg cgcgcacgc caccatggcc 120
 ggcgcgcacg acgatcttgt gacctactcc gccaaagatgg acctatcct cgagcaactt 180
 gccgacatca atgcccgttt ggattcccat gacgctcgtc tggccaagct agaccaggcg 240
 tgggtcagcc cttttgcttc taccgcgggc tgcttgggcg cgagcgaggg cggcctgggc 300

gcgggagag gcggcgaat cgaggacgat gggggcaatg ggctgcaacc caacacaccc 360
aaggaggtgg aggcggcggt ctacgttga 389

<210> 41185
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A5

<400> 41185

cgcacgcgtg cgcgtactcg atgtgcacgt tggagttctt gcctcgtacg aggttgccgc 60
tgggaggcca cttcaatcat actaggtgtc gttgctgttc acgagggacg taatcgccac 120
tagatccgga agaaagcaac catgcgacg acgaccctta acatctgcct tgtatccctg 180
gagatgagaa agacattatg ttcaactctt caagtctggt ctaccggctt tgatccacag 240
tgcaaggtac gga 253

<210> 41186
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A6

<400> 41186

ggtggtccac catggcgacg cgagcggtgg ccacgatgac gactaataag ccccttctcc 60
tgggcgcctt ggcgtccgag ctccgtggtg cggcgccctgc cgccgcgaac gcgcccggcg 120
gggcgttcag caactgggtg gcgatgaacc agcagagcta cgcgctgtac gcgcagaagt 180
ccgtcgggga cgggggcaag gagcccctgg acaagaagct gtcggaggcg gagaagaaga 240
aggtcacgta cgtggtggac cccagcg 267

<210> 41187
<211> 265
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-026-Q1-K1-A7

<400> 41187

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gccaaacttg agatacaacc ggggaggaaa cancaacaat aggtagtctt acttctgagt 120
gaggaaaaac aacttgccgc tgagttaatg aagcttagta gctaccaccg ttgtatgaca 180
gttgctcaga gatgttatct tcattaagtg cttatattac cgctagttcc ctgtgaaatt 240
tgttaaacca ttatatgtaa gtttt 265

<210> 41188
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A9

<400> 41188

gcactatcta taggaagtgc cctgtgtttt tttttctcat tccttgctag tgtcactaag 60
ggggctacta acatcacaaa gggctctcaa tcacattctc cacttcattc ttcatgcccc 120
aatatccttc ttttattcca cacctactgg tataatttta aacaagtcct ctaattacca 180
aacttttcta cattttgaaa tatcaaacad actaagctct tctttttctt caatcattac 240
tatttcttgg caccactctt cttatttcat attttatcat tcccaacttt tctaccttta 300
ttcaccaaca tcaaactttc ttttttctat t 331

<210> 41189
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B1

<400> 41189

agcaaacctg cagtcatctg ctgcagcacc accaccaagc tcaacaacag ccagctcgcg 60
aaaatagatt aatagccgga ccatggcgct atcaggcgcg ctcttcgaac tagcccgctc 120
gctagtggcg gccaccgcc cacaggtagc ggaggcaaag aagaagagag cggcggatag 180
cggcgaggct gcagaagcga aaaagatcca ggaccacttc tgctcgactc tgtgccaggg 240

<210> 41190
<211> 310

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-026-Q1-K1-B10

 <400> 41190

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 agagccgcag catggcatca tcggccgcgc tcttggtgct agccctcgcg ctagtggcgg 120
 ccaccgcccc acaggtagcg gaggcaaaga agaagagagc ggcggagagc ggcgagggcg 180
 cggagggcgaa gaagatccag gacgacttct gctcgacgct gtgcgagggc aagaagggga 240
 cggacctggt cgtgtgcaag gagtctgcg ctctctccca gcagtccaac ctggtgctgt 300
 acggcaggat 310

<210> 41191
 <211> 153
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-026-Q1-K1-B2

 <400> 41191

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 tagggggcac gacttttaca acaaggtgcc tgagaaaact ctagctaaac tcaactaaat 120
 tcgcttgac cacaaccaac cttctccagg tgt 153

<210> 41192
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-026-Q1-K1-B4

 <400> 41192

 gcgagggcgc ggaggcgaag aagatccagg acgacttctg ctcgacgctg tgcgagggca 60
 agaaggggac ggacctggtc acgtgcaagg agtcctgcg gctctcccag cagtccaacc 120
 tgggtgctgta cggcaggatc cagtgcaagg gcaagtgcac cgagcagaag ggcatacagg 180
 cgccggacat gaaagtctgc caggaggagt gcgacaaggc gtacgtggtg aaggccgccg 240
 atgtcaccaa ggctgcagc gtcacctgcg cctaggagaa gaaccgcgc cttagcgaga 300

actgcaagag gtcctgca

318

<210> 41193

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B5

<400> 41193

ggccacagga ccaccggcgg gctggccggc aagttctacg tgggtgattga cccagcgcac 60

gacgccgcgg acctcgteac cccaggaag ggcaagctcc ggcacgccgt gaccggggcc 120

cgggcgctgt ggatcacctt cgcgcgcgac atgggtgatcg agctctgccca ggagctcatc 180

gtgagcagcg acaagaccat cgacgggcgc ggagcgcagg tgcacatcgt gggcgcgcag 240

atcacgctgc agaacgtgcg caacgtgatc cttcacaacc tgcacgttca cgacgcctga 300

gcgcacggcg ggggcgcgat ccgggactcg cagcaccac tgggccttgc gcggggagag 360

cgac 364

<210> 41194

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B6

<400> 41194

ccgcatcacc tctccctccg gcgcgcgcgt tcgggtacag cgctagagtc actcaccacc 60

atgcaggcgg cggcggctgc aaatggcgca ggctaacttc acaagcctca gcagcagccg 120

ctggtggcgg gggcggccgc ctcaccgctc gcggcggccg tgggtgctgcc ccattgggtc 180

ggcatgccgt tcgcgccgc ccttggggcc acggacatgg tgatgcagcc gcacacatat 240

ggcgccttcg ccgacataat tcgcgccgac tcaact 275

<210> 41195

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B7

<400> 41195

caaaaatgct gcatgcgaga ggcttcttga acagaggggtg gatgtaaaga tgaagtcaaa 60

aaagatgatg gattgcttga atagatttca tgttgctctg ccaaagcctc gtgacaacaa 120

ggagaggcct gtttgcattc ctctggctgt tctggaagct agggctaata ctgctgcaaa 180

ggaaaagaag cttgagaagg acattgagaa tgagaatgga ggtgctgggg tctattctgc 240

aagtctcaag aaacattata ttttggccaa tgatgaatgg aaggagga 288

<210> 41196

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B8

<400> 41196

catctattgt agcgtacttg ttatacagta ctcttccatc tctccttttt tccttgttga 60

tgccaaaatc aagtttacia aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa 180

aaaaaaaaat aaggggggat gttttaaagg atcaaagttt 220

<210> 41197

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B9

<400> 41197

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cgcgccctt gcatggctcg ttgggggcag ctcttgctgc tcccccaagg tctcaccctg 120

gccaaacatc accaccaact acaacgcaa gagactcacc cctagggcca cctggtacgg 180

tcagcccaac aagaccatcc actactgaca actgctggaa cctgcgcgat caataacatg 240

aacctgccac cctacagcgc catgacggcg tgccgcatct tccacatctt caacgacggc 300

aaggcctgcy gatcatgcta caaggcgaga tgcaaggaaa aacctgcatg atcgggcaat 360

ctcatcacgg ttacatcac tgac 384

<210> 41198
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C1

<400> 41198

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acagtgtttc tcagaggcat cttcacgtcg gccagctgac ttgttgtcat ctttcacaac 180
aatcaagagt gttatgaatg gcttgtatga tggccttaaa gatgtccttt taatccttct 240
aaaaaatttg gatactcgag aaaaggttct tgagtatata gcagaagtga taaataaaaa 300
tgcattccaga tctggcatg 319

<210> 41199
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C10

<400> 41199

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atgtgcaatg ccccaaagta cattgctgaa gctaggaagg ggtctcgttt tggatcatgac 120
acacttggtg atgccatgct taaggatggg ctttgggatg tatacaatga ttgtgccatg 180
ggaatgtgtg ccgagctttg tgctgacaat catgccttca caagagaaga ccaggatgca 240
tttgctatcc aaagcaacga gcgtggaatt gctgctcgtg acagtcgtgc ttttgcattg 300
gagattattc cgggtcaagt tcctgttggt ag 332

<210> 41200
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C2

<400> 41200

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 tgcacgggtc gacgagggct gcacgaacga tgggggtccgc ctccgcctca gtgacgacaa 120
 ccagcctgct ggcgctggcg ctggcagcgc tggttttctg ctccagggcc gcggcgcagg 180
 gcaacggctg ttccagcgtg atgatgaccc tggccccgtg catggacttc atctccagca 240
 aggcgtcgga gccggggatc tctgtctgct cgggtctggc cggagtcgtg cagaccgacc 300
 cccgctgctt ctgcatggta ctggacggca ctgccacgtc ctccggcatc ggcatcaacc 360
 aaaccaaggg gcttgaactt cccg 384

<210> 41201
 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A4

<400> 41201

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 cgggggggcaa gctctaaaaa acaagggtc tcaaagaaa gatttgaaac atcacgtcat 120
 tcaacacctc aagagatacc accatgaagt ggaaagggca tgtcaacaac gtgtcctgta 180
 tggtaaagaa atcgtcgtaa ggggcaacga atcctgccaa atctaccaa tgcaaacttc 240
 agctctgaag cattgtttta tcacttca 268

<210> 41202
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C3

<400> 41202

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 caggagccct tccactcgca agaagcgcgg ggcgttcagc ctcttcaggg cgatgttcct 120
 gtccttcggc cggagcgcgc acagcatgaa taagacagac gacgacacca cgagcccaaa 180
 gaagagagcc atcgcggctg ctgatgacga ttgcaagcct gccggtgacg agtcaacgtc 240
 gcggaagcgc ctctgtggac gtatgcgccc gctccgcctt cgcgggcagc ttgagtacta 300

cccggccgca accgcgccac cgttcgttgg ccacgccgat gtgtaccatg acgtgatcct 360

tc 362

<210> 41203

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C4

<400> 41203

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atcctccact tcgcgctgtt cctgcgccct ccttctggca tcggtgctgt cgttccgcc 120

ggcgggtgtt aaggtcggcg acgagcgggg atggacgggt cggccaatg gcaccgagac 180

gtacaaccac tgggcaaaga ggaaccgctt ccaagtcggc gacgtcctga atttcaagta 240

tgccaacgac gactcgggtg tgctgggtgg ccacgatgac tacaagcagt gcggcacggg 300

catcccgtg agctcgttta cggg 324

<210> 41204

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C5

<400> 41204

catacatggg catcattcgg actttaagag agaaggtgtc caaattaaag gctgcaagga 60

tgcgcattta tgtccggaga ggtggggcga actacacaac tggactcgcc aaaacgcgca 120

ccctatgcgc cgaacttgct ctttacttag agggctattg accatcaggc caccatgtct 180

gggaactaga aagaagccat tgattgcatg atgggcgcgt gaatcacaaa tgtggtcgct 240

gcatttgaag ccacattcg 259

<210> 41205

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C6

<400> 41205

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caccttcate aggggtgtctg gttctgagtt ggttcaaaag tatattggtg agggctcccg 120
gatggttagg gaactctttg ttatggccag ggaacatgca ccatccatta tatttatgga 180
tgaaattgac tctatcggtat ctgctagaat ggagtctgga actggcaacg gtgacagtga 240
agttcagcgt actatgcttg aacttctaaa ccagcttgat ggttttgaag catcaaacia 300
aa 302

<210> 41206

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G9

<400> 41206

cttaaacaga ttagcgatga tggtagaaaa gattagacc ctagccag gtattaagtg 60
aacctcgcac attagaccaa ctgaaccatg agcaaaaaga tctaactcaa ctagtatagt 120
catgatgaat tacataatcg gactatccaa acttttgacc aacatcatgt agtctatctt 180
atctatgtct atcctaacca tattcctcaa cctgatgat atacactaac atcgaatcaa 240
tgagggtcaag accggagagg aaaagatcaa cattaacaag gaaggatgta acagtcaaag 300
cgaatctcga gatgaatcaa gacttagatt tttcagatga agtttttgct atctttcgtg 360
tggggacctt cggcctccga aagttcttaa aaacaggatt taacagtatt tctggagta 419

<210> 41207

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H1

<400> 41207

ggccgagctc aggaaggcgc aacgcgtcaa ggagttcaag cctaccgtga gcttccccct 60
cgtcaagtcg ttgctggaga aagagcaaga agcagacgac aagggaaga agaagaaggg 120
gaagggcggc cagcagagga agaagccgtg cccggcgtac gtgctctggc tcaaggacca 180

gtggaccgag gtcaagaagg agaaccctga ggcagacttc aaggaggtgt ccaacacgct 240
 gggcgccaag tggaaggctc tgggcgccga ggagaagcag ccctatgagg agcggtaccg 300
 ccaggagaag gaggcctacc tgcaggtggt tggccaggag aagcgcgag 349

<210> 41208
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-025-Q1-K1-H11
 <400> 41208

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 gtccgccgac ggggcgggtgt ggagtgtca tgggtgcgaa tggtgtctgc ttctgtctgt 120
 ggcgtgtggc cgatccaggg ttcattgagga agcatttcat gatttctctg gacaatttca 180
 agagtggacg gttgcacacc ttgctcacga gtgctttcag ccatgcagag tttaatcacc 240
 tctttgccaa tatgtttggc ctcttcttct tggggagcag tattacgaat gtgtttggtc 300
 ctgcctttct attgaagttg tatgttggtg gagcacttac tggatcagta ttcttcttgc 360
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<210> 41209
 <211> 252
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-025-Q1-K1-H12
 <400> 41209

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 cttcgcttac tactggccgc agtacacgcc catcaccgag gcggctgccc atgatgtcat 180
 gctgttcacc ttctccaaat cctccggcca tgccggtact aggctggggg gggcactggt 240
 gaaggacact ga 252

<210> 41210
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H2

<400> 41210

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ctcctcgtct ccaccgcgcc cgccgtgcgg accatccccg acgaagcccg cggccccgga 180
aacaacatcc acgaggcgtg cagcaagacg ctgttccccca aggtgtgcct gcacgcgctc 240
aaggacaacc ccgagtgcc a ggcggggggcg gtcacgccgc gccggtggc cgagctgctc 300
gtgtacgtgt cggccgaggt gggcatgacc ggggccgcgt tcgcgcacca cgagctcaac 360
tccatcaagg acgacgtcct gtacaagtgc ctgcacacct gc 402
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<210> 41211
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H3

<400> 41211

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tgtggctgct cgccatggca ctggcgctcg cctgcgtgct gctcgtgagg tccgccgacg 180
ctgctgccga ggcgtccccg actccaggcg gctccacct a cgggtgcaac ccggccacgg 240
acaagtcgtg caagcccag ggcgtggggg tgggtgtgcc gggcggcggc atcgacctcg 300
acggcgacgg tgacgaggac gagctgccgc agtttcagcc ccacctcatg atcctcggcc 360
atggccactg atgagtgtaa atggttggtt ggttggtcgt cctcagccga tctactggac 420
gacacgatgg cggtcacatt tgcg 444
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<210> 41212
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H4

<400> 41212

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acagctgcca aatcaatggg ttctcatcac ttaatctgac caaactggat gttctgtccg 180
ggttgtcaga aattaagggt ggtgtttctt ataccagac tgatggacag aagctgcaat 240
ccttccctgg ggatcttgat acccttgagc aagtacaggt caactatgag gttctgcctg 300
ggtggcaaag tgacatttct tctgttcgaa gatacgatga acttcccaa gctgcccgcc 360
tctatgtgga gaggatagaa gaacttgtgg tgttcccggt cactacattg gtgttggacc 420
tggcagagat gct 433

<210> 41213

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-025-Q1-K1-H6

<400> 41213

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actctagaga gtaacatcac caatctgaat tcttcttctg aagtaggagc agctaatagc 180
acaacagata gtaaggaaaa tctgagttct ggcagtaata ctaattcgag cactccatt 240
gatgagagta atgctcaaga aattattaca gagaagggtg taaagaaaag aacttttagg 300
gttccgttga aggttgtgga aaaaacaact ggtgctggaa caattcttct gaaggagttg 360
tattctgaag canaaaatag gtttagggca ctcgataaga aggatgcaga acggaggaaa 420
actgctgaac ttaagaataa cctagagtca tacatata 458

<210> 41214

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H7

<400> 41214

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tcgcgaaaat aatgaagagc cgcagcatgg catcatcggc cgcgctcttg gtgctagccc 120
tcgcgctagt ggcgccacc gcccacagg tagcggaggc aaagaagaag agagcggcgg 180
agagcggcga ggcgccggag gcgaagaaga tccaggacga cttctgctcg acgctgtgcg 240
agggcaagaa ggggacggac ctggctcgtg gcaaggagtc ctgcgctctc tcccagcagt 300
ccaacctggg gctgtacggc aggatccagt gcaagggcaa gtgcaccgag cagaagggca 360
tcacggcgcc ggccatgaag gtctgccagg aggagtgcga caaggcgtac gtggtgaagg 420
cggccgaggt caccaaggcc tgcagcgtca cct 453

<210> 41215

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H8

<400> 41215

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ccttaattat atctcataac gagcactatc ctaacttttt acttacattc ccattcttac 180
cactatttcc tctactccta accacattcc ataaacctgc ttatattcag taacttccta 240
aaaa 244

<210> 41216

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-H9

<400> 41216

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cataatactt cacataacga tcacttccaa acttttcacc aacatcctct ttcctatctt 180
 atttatctct accctaacca ttttcctgaa acctgcttat a 221

<210> 41217
 <211> 199
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A1

<400> 41217

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 aagggggcac catggcccag aagctggaca tcgccggcat gaagtttacc tcgcgcactt 120
 tcgccttcgc gacaaccaa ctggtgccgg cgtgtacctt cgttatcgtc ctcatcttcc 180
 actacgagaa gtacggcat 199

<210> 41218
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A10

<400> 41218

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 tccattctgc aaagcgtgga tgtgcaaggc ggagtgttgg acggaggcta agttaactgg 180
 aggcaaagtc acgcaacaga agtgcagag aggtgggatc aagggtggt gttactgcga 240
 attctgcatt taattttgca aaggagaagg atcaccattt ctttgcttgg tcttgccttg 300
 gtcaataact 310

<210> 41219
 <211> 142
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A12

<400> 41219

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 agtactttct acatattcaa gggaccaa at ttacatacac ttctcttcca ctctattat 120
 ctacaatctt catatcaaaa tt 142

<210> 41220
 <211> 381
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-026-Q1-K1-A3
 <400> 41220

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 tcgcctccgc gacaaccaac ctctcccggt cgtgtacctt cgtcatcgcc ctctcttttc 180
 gctacgagaa gttcgccatg cgcagcctgt ccagccaggt caaggtcgcc gggaccctgc 240
 tgggcgtcgg cggggccatg ctgctcacct tctacaaagg cgtcgacatc acgccttggc 300
 acaacaacct caatcttctg tggcacgctt acccaacacc accatcacac caccaccacc 360
 accaccaact acgcatggg g 381

<210> 41221
 <211> 452
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-025-Q1-K1-G7
 <400> 41221

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 tgattctgaa ccggctgttc agacaattgt tcagcaaagg cattattctt gtttcaactt 180
 ctaaccgtgc tccagataag ctttatgaag gtggcttaca acgggacctt ttcttgccat 240
 ttattgacac cttgaaagaa aggtgcatcg tgcaccctat tgcattctgt gtggactatc 300
 gtcaactggg ttctgctgaa caaggattct attttgtcgg aaagcattac agtacgcttc 360
 tgaaacagaa gtttcagtct ttaattggag aagaggaacc cagcccacaa actgttgaag 420

tatattatgg gtaggaaatt acatgttttt tt

452

<210> 41222

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F10

<400> 41222

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ggccacccac gctggcgggcg tggataaatg ccgtaagctt ggccagtatt actctcaacy 120

cctgtggatg ctcaggacga tgggtgcgca gctgctgatg cacgtgcgca ttgagatcac 180

ctctgccaaag gtcaaagacg ttcgcctgaa ggctgatcat atgggtgcagg tagggatgga 240

ggataactcat catgcaacaa gacaagctgt tcccttcgat cgatgggatg atgaccttca 300

taaactat 308

<210> 41223

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F11

<400> 41223

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gtgctcccgt gctgtcgtcg tggacgtctg ccttatggtc gccgagtcct cctcgcgccg 120

cgctgccttc gatggcaggg ggccgacgta cgggtacacg gacgtgagcc ccgacggacc 180

ggataactgg ggcaagctga gccccgcgta caagctgtgc gggcagggga agcaacagta 240

catgatcgac atcgtcacca agcaggccgt cctcaacgc 279

<210> 41224

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F12

<400> 41224

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 tcgagggcca ccacctgagc tctgccgcca tagtcggaca cgacggcgcc gtttgggccc 180
 agagcaccgc attcccacag ttcaagccag aggagatgac caacatcatt aaggacttcg 240
 acgagcctgg gtttctggcc ccgatcggcc ttttcttgg cccaccaag tacatggtca 300

<210> 41225
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F2

<400> 41225

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 gaggaactgg ggtgtagttc gcttcgccgt cgttccgta atggggctcg gtgtatgcgg 180
 ctgctctgca caaggttggc tcgccccctt ggggaggagt tcggtgcatt taggaaacct 240
 aacgggtggc tacagcccta gaaaatcttt gtaaaggcta cgtagtgaaga ccctgcctgt 300
 tcactttggt agtgtttaag gggttgatcg gcccgaggca agaggggaatc acagcttgtg 360
 ggtaaagtgc gcaacctctg cagagtatta tgaaactgat atatcagccg tgctcgcggt 420
 tatgagcgtt caagggagct tcattgat 448

<210> 41226
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F3

<400> 41226

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 caaggaactt ggcactgtga tgcgctcatt ggggcagaac cctactgagg ctgagcttca 180
 ggacatgatc aatgaggttg atgctgatgg caatggaacc atcgacttct ctgagtttct 240

caacctgatg gcacgcaaga tgaaggacac cgactctgag gaggagctca aggaggcctt 300
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 gaccaaccta ggcgagaagc tgacggacga ggaggtggac gagatgatcc gggaagccga 420
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<210> 41227
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-025-Q1-K1-F4
 <400> 41227

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 ccatgagagg gtctattcta gaaaggagg agtccaacaa cttgttcttg gtctgtacat 180
 tatcaggggt gacaacataa gcgttgtggg cgaggttgat gaagagctgg attcaagatt 240
 ggatatgtcg aagctaaggc cgcaccact gaagcctgtt attcactgaa gtccgagtat 300
 gtctttgggt aatatgtgga ctggatggat gggtcactgt tgaatgcaag atgtaacatc 360
 atcatggtga ggggactgaa gtatatggac atgtatcttg cgta 404

<210> 41228
 <211> 117
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-025-Q1-K1-F5
 <400> 41228

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 aagggggaga aaaaaaaaaa ataaagggtg gtctgccaat tctaaagttc ctttctt 117

<210> 41229
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-025-Q1-K1-F6

<400> 41229

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gaagacactc actggcaaga caatcaccct tgaggtggag tcttcggata ccattgacaa 180

tgtcaaggcc aagatccagg acaaggaggg catcccaccg gaccagcagc gcctcatctt 240

cgccggcaag cagctggagg atggccgcac cctggcggac tacaacatcc agaaggagag 300

caccctccac ctggtgctcc gcctcagggg tggcatgcag atttttgtga agacattgac 360

tggcaagacc atcacctt 378

<210> 41230

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<212> DNA

<213> Zea mays

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<400> 41230

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<210> 41231

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F8

<400> 41231

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taaattcaaa gtcaagaaat acaagatgaa ggccccctcg tccatgaagt tcagattcag 120

aaccatgaaa gacggacagg tccgcaggtg gagggccggc aagcgccaca atgcacacct 180

caagtctaag gaggccaaac ggagacttcg gaagcctgct ttggtgcatt tggcctacgc 240

aaaggttata aagaagctca acttctgtgg gtagcaaata aataaagaca tagcggagtt 300

tggcatggga aactagttaa ctgatactga ccgccaaccg ctgcatctca gttgtaaacg 360

ctggagcctc tccttgagacc aaatacttgc tttttgtcac atgatgcatt atctcgt 417

<210> 41232
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-F9

<400> 41232

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catgatgaat tacataatcg gactatccaa acttttgacc aacatcatgt agtctatctt 180
atctatgtct atcctaacca tattcctcaa cctgatgat atacactaac atcgaatcaa 240
tgagggtcaag accggagagg aaaagatcaa cattaacaag gaaggatgta acagtcaaag 300
cgaatctoga gatgaatcaa gacttagatt tttcagatga agtttttcct atctttctgt 360
tggggacctt cggcctccga aggtcctcaa aaacaggatt taacagtatt tctggagtat 420
aatgtgtgaa ca 432

<210> 41233
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G1

<400> 41233

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tcgtcgcccc ccccgcttc cagaag 386

<210> 41234
<211> 219
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3075-025-Q1-K1-G10
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 tgtgagatac tacaggacaa cactcacgaa gcttttcagg aacgtactgt tcgagaccac 180
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<210> 41235
 <211> 204
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G11
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 cgtttagcatc catagcaggg ggccgacgta acggttcaag gacgagagcc tcgacagcac 180
 agataacagg ggcaagatga accc 204

<210> 41236
 <211> 132
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G12
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 gtcctcccgt gctgacgggg tgggcgaagg cctaaagctt gccaaagtcct ctttcgacga 120
 cgttagatac ga 132

<210> 41237
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G2

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gtccgagcgc acgacgacta cgttgctgct agcagcagtc atcctggggc tctgcatcgt 180
tttcctctcc ccccgcggcg ccgctgtcgc agcgggtctc ccccgcgccc agcccgatcg 240
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<210> 41238

<211> 92

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G3

<400> 41238

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<210> 41239

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G4

<400> 41239

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cggctgcctt aaactgtctc tccgccggat actacaccg ccgccgcagc gccgaccttg 180
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agttagtata taatgggtgg ctggtgttgc tgttcgtcga gaacatctga agccgataga 360
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<210> 41240

<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G5

<400> 41240

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cgtgcaattc tctgtagctg tatgagcatt tggagcctca tccctggaca agggggcgat 240
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gataaagtca atcatagcat tggatcatct aaaaattata tttatatgga tgggtcaaag 360
tgagattgga catgagagag actgcaaatt tgtctgatgc aaaaa 405

<210> 41241
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-G6

<400> 41241

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aataatgaag agccgcagca tggcatcatt ggccgcgctc ttggtgctag ccctcgcgct 120
agtggcggcc accgccccac aggtagcgga ggcaaagaag aagagagcgg cggagagcgg 180
cgaggcggcg gaggcgaaga agatccagga cgacttctgc tcgacgctgt gcgagggcaa 240
gaaagggacg gacctggtcg tgtgcaagga gtctgcgct ctctcccagc agtccaacct 300
ggtgctgtac ggcaagatcc agtgcaaggg caagtgcacc gagcagaagg ggcatcacgg 360
gccgggcatg aaagtctgcc aagaagagtg cgacaaggcg tacgtggt 408

<210> 41242
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D5

<400> 41242

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caagggttta tggacgccct tggctgatta attaggaaag ctagtggagg actaccttac 120
tcgaaagggg caagggcagt aggggagtggt tcagtgtagg gaggtccttg gttgattttg 180
ctgcgatggc ggtgaaaggg aaatgtgccc ttgggccatt ttaagtattt tgttgattta 240
gtgtctaaca caagtgtta aatgtaaaat ggtggacaaa gtacaaacca aggataaagg 300
tatgtttctc agacttagta catttgttta tgg 333

<210> 41243

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D6

<400> 41243

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tgcaccaaga agtacgactg caagatcctt cccaactcgc tggatgatga ctctgtgaac 120
aacggggagg tgtccggggt cacgctgctc aactccaagt tctccacat gaacatgtac 180
cgggtgaagg acatgctgat caaggacgtg accgtgacgg cggccgggga cagccccaac 240
acggatggca tccacatggg cgactcatcc gggatcacga tcaccaaac cgtcattggc 300
gtcgggtgacg actgcatctc catcggtccc gggacctcca aggtgaacat caccggcggtg 360
a 361

<210> 41244

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D7

<400> 41244

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gggccacgac gtgatatgcg ggccttcgaa ggtgactcta aggtcccaac atctcgacca 120
attactattg ctagtgtctc acccccatgg tcacgtgcta cattgagtct aatcttgcac 180

gagttgctga caactggtgg tcgtgggcta tcaagaatgt gtacacggca tcttacacca 240
 ggatgaagat gtgtagctac gagctcattt ttaatgaacg gcaggggttc gtgtaatact 300
 atgaggtgac ataccatgaa aaacctgggt gctcaggcaa t 341

<210> 41245
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D8

<400> 41245

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 cggcaaggatg gaacagccgg cggacagctc cttgaagccg gcgagcctga acgcgttcga 120
 catcatctgc cactccagag ggttcgacct gtcaagcctg ttcgaggtgg accaagagca 180
 gaagggcagc aactcgcggt tcatgaccca gaaaccggcg tcggcgatag tgtcaaagct 240
 ggagcagatc gctgagacag agcgcttcat ggtgaagaaa caggacgggc tggatgaagct 300
 gcaggggtcc aagcaaggga agaaggggca 330

<210> 41246
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D9

<400> 41246

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 cgaccgcctc tacaacttgc gcaaccaggg cgggaagccg gagcagttcg accccagcat 120
 gaaccgtcc tacgccaggg ggctgcagga cgtgtgcagg gactacctca aggacccac 180
 catcgccgcy ttcaacgaca tcatgacgcc cggcacgttc gacaacatgt acttcgtcaa 240
 cctcgagcgc ggctcggcc tgctcagcac cgacgaggag ctgtggacgg acccagcac 300
 caagcccctg gtgcagctct atgcatgcaa cgccacagcc ttcttcgacg acttcggccg 360
 cgccatggag aagctcagct tggtcggcgt caagaccggc gccgactgcy aggtcaggcg 420
 gcgctgcgac gcttacaaca gcggaccgc cgtcgccgcc 460

<210> 41247
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E10

<400> 41247

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ctccaccccc gccaccgcca tgggtaaatt ccgcaagctt ggccgcaatt actcccaacg 120
cctctgcatg ctcaggacga tgggtgcgca gctgggtgaag cagagcgca tcgagaccac 180
cgttgccaaag gcgaaggacg ttcggcgga ggcggatcag atgggtgcagc tagggaagga 240
gggtactcag catgcagcaa gacgtgctgc tgcctttgat cgaagtgatg atgtccttca 300
taagctatatt actgagctgg cctttcgcta cagagatcga gctgggggct acacaagaat 360
gttaagaacc aggatacgtg gtgggtgatgc tgctccaatg gcctaca 407

<210> 41248
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E11

<400> 41248

cccacgcatg cgtggactca tatgccttgt ccgaatcgag gctatcagag tatacgcgca 60
gggcagagat cacgacctgg gggacgacta atctactgtt aacgagggct cgaatgcttg 120
agctagctgc aagactgaca ctgcctttaa gttcagcgaa ggaatctggg gggacgctaa 180
gcttgcccgg tacgcaatcg gcgccaaact gaagcttgct ggatgagagg tctgcactga 240
acagcttact atggtaacct aaaaatcagt ggcatatgcg ataaatgata ggtgaaccga 300
gctaattctaa cgcgaagggg cagagtact actccacata tgaaccggag cgttctatga 360
ccacgcttga catgtgcatg gcagagcttg acg 393

<210> 41249
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E12

<400> 41249

agcaaacctg cagtcattct ctccatcacc accaaactca acaacagcca gctcgcgaaa 60
ataatgaaga gccgcagcat ggcatcatcg gccgcgctct tgggtgctagc cctcgcgcta 120
gtggcgggcca ccgacccaca ggtagcggag gcaaagaaga agagagcggc ggagagcggc 180
gaggcgggcg aggcgaataa gatccaggac gactttctgt cgacgctgtg cgagggcaag 240
aaggggacgg acctggctgt gtgcaaggag tcttgcgcgc tctaccagca gtccaacctg 300
gtgctgtacg gcaggatcca gtgctagggc aagtgcaccg agcagaaagg catcacggcg 360
ccggccatga aagtcttcca agaagagtgc gacaagg 397

<210> 41250

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E2

<400> 41250

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ctggtagagc aaaagtttct gaaagtacag atatagttac atttgctgat gtggctggag 120
tagatgaggc aaaagaagag cttgaagaaa ttgtggagtt cttaaggaac ccagaaagat 180
atgttcgtct tgggtgctcg cctcctcgtg gtgtcttatt ggttggtttt gcaaattgcta 240
tcagtaatgg caattactgc ttgacaattg tgtttgttac catattgtta ttctttatct 300
acaggtgggt cttccaggga ctggaaagac acttcttgca aaagccgtag caggagaagc 360
agaagtcccg ttcataagtt gctctgctag tgaatttggt gagctatatg taagcatggg 420
agcagctcga gtacgtgacc tatt 444

<210> 41251

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E3

<400> 41251

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 ataggacaat gcgctcgaca atccatttag ttccttgtcc acaacatttg aggcagcttt 120
 atatagttcg aagtatttca atgtataggc tacaactgaa ttgttcatgt aactacatcc 180
 tacttgetta gcagtgttta ttacaaaata accatatgct ttcacgatgc ttttaatttc 240
 acatgaagtt gccttgagtc gtgcaaaagt attacttcac tccttttttc tcttccttta 300
 tcacttatca tattatgatg taatttggaa caatgcctta aaaaacttat gttgtaggct 360
 atcatgaagc tttctggtca aagtcctaaa agaattgagag acctatcaag tttgtggggt 420
 tcaactccctt cccacctcat cctttctgtg tctac 455

<210> 41252

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E5

<400> 41252

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 cgggattgag caggagtaca cctttctcca gaaggacacc aagtggcctc tcggttggcc 120
 gctgggcggc taccctggcc ctcagggacc ttactactgc gccgtcggag cggacaagtc 180
 ctacgggcgg gacatcgtgg acgcgcacta caaggcctgc ctctacgccg gcacogacat 240
 cagtggcatc aacggggagg tcatgccggg gcagtgggag ttccaggctc gccctgccgt 300
 cggcgtctcg gccggcgacc agctctgggt ggctcgctac attcttgaga ggatcaccga 360
 gatcgccggc gtggttgtct ccttogaacc caagccaaat tccggggact ggaatggcgc 420
 t 421

<210> 41253

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E6

<400> 41253

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cgccgagaag gacaagggga agaaggcccc aatctcacgc tcctcccgcg ccggcctcca 120
gttccctggt gggcgtatcc accgtcagct gaagcaaagg actcaggcaa atggtcgcgt 180
tggtgccacc gcagccgtct actccgtgc catcctggag tacttgactg ccgaggttct 240
ggagctggct gggaatgcta gcaaggatct gaaggtgaag cgtatcaccc ctgccattt 300
gcagctagcc attcgtggag acgaggagct ggacaccctt atcaaggga ccatcgcagg 360
cggaggtgtc atccgcaca ttcacaagtc cctgatcaac aagtccttcc aggagtgaag 420
acttaggat gtgcatcttt agtttaaact agactttt 458

<210> 41254

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E7

<400> 41254

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ggcccaagac ctcacacct ccccttcgcc gtgaacccta accccgcgcc cctcgccccc 120
tccttctcgt cgtcatcgcc gcccgctttt ccgggcccc atcgctctt ctctttcacg 180
agtggttcaa gcatgggtgt cgtgggctcc ggggactcct tcaacagcat cttttccaag 240
gtgcaagatg aaaagctacc agctgtcttt tactacacgg cggtgtgggtg tggaccatgt 300
agggcgatcg cacctttagt atcaaagctg agcagccagt atccaagat accggtgtac 360
aaagttgaca ttgaattgga aggactgtga aacaaactcc gtgatctaaa catatgttca 420
gtgccgacgt tccacttcta tcac 444

<210> 41255

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E8

<400> 41255

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gcgccacctc cttgggaggg tcagccagcg gcaagcaacg aaatgccaaa tggatgaattg 120

ggaggcgtgc aacctcttcc tgggacagct gggcagttcg gcggcatgca gcaggcactg 180
 caaccacaag ttaaccacat gggagttcca caaaggcagc caatgtacag caaccagcca 240
 ggggttgtgg tggcgccaac acagatgcag gcaggcttgg ggaaccagca gttgggttcg 300
 acatccatga tgggcatgcc tccacagatg tatggcgggc gatcgaggc agccatgatg 360
 tccccgcac aaatgccagt ggcgcgcag caacccatgt attgtggtgg tgcgtcttg 420
 cagggtacat gc 432

<210> 41256
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-025-Q1-K1-D4

 <400> 41256

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 tcgccgtggc ctcaccggt gctctggcgg ccttcgatgt gatagagatg ctggccgaca 120
 agcccacgta ctccacgttc ctgaagctcc tgcaggacac caaggtcgcg ggcgaggcga 180
 atcagctccg gtcggcgacg ctactggtcg tccccgacaa acttgccaag cctctggcgt 240
 cgctgcccgc cgataagggtg cggccggcgg tggagaacca cgtccttctc agttacttcg 300
 accccatcaa gctggacgag atgaagacac gcaccgncat tcttcccaag ctggtcttcg 360
 gcaacgaaca gaaactcggc gtccctaact acaccagggc cgacgacggg cagatgtact 420
 t 421

<210> 41257
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-025-Q1-K1-C11

 <400> 41257

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 gtgaagcccc ccttgcagct ggaggaaaag ggggagctgg agaaggaggt gtgggagagg 120

ttctacggca cgggcttttg gaggagcccg tcgcagctgg acgacaacga cgacaggtga 180
 tcgggacagg cccgcgagcg agctatccac aagctcctcc ggcgatgcgt gggcttcctt 240
 cgttttccgc gggaagaaga gaggatcgag gaaagggaaa catgattgtg tgttcgatac 300
 tacgattacg aacttcgntt tcccttcttt tttggttgtt tggaagggga aatacttctc 360
 ttctattcta caacaatgtc acgtacatgc aatgtaataa taaaaaatgt atgtgatata 420
 tttaacaatg tgattgatga 440

<210> 41258
 <211> 279
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C12

<400> 41258
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 tacactagcc cgcgatgcg agggcttctt gtgtaccatc gaggaggacg cgcttggtat 120
 gattaccttg aatactagac tccggaacaa agctgaaatg gtgcatactc gatgctgcaa 180
 gagcaattac tgaactgaat ggtgtcacia gcctagatct tacacttaga agtactgcgc 240
 tgtatatgtc tataagtaca ttcaaacctg ttcttagat 279

<210> 41259
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C2

<400> 41259
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 gatcgagac aactgcgcca atgtgtgccg cggtaggggc ttcttgccg gcaggtgcag 120
 caccttccgc cgccgtgca tctgcactag gcagtgctaa acaagatcgc tcgatcgctc 180
 gccatgcac gacaacctat tcttaataac gttcattatc tcgttcttat ttatgacgaa 240
 tgtcatgtat gttctgggtga ctgtcatgta tattctgatg actgtcatgt atcttggtca 300
 tgtatgctca aggttcatta tcttggtcat gtattaagta tgttatgaat aactcaatat 360

ttattatttt gttc

374

<210> 41260

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C3

<400> 41260

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gctgaaatga gctccagcag tgggggtgctt ggtgaggaca tagtgtcttt tggcagagag 120
agtgaactta agccacagca tgctatTTTT ggctgtgaaa attctgaaac tggagatttg 180
ttcagtcagc atgctgatgg tataatgggg ctgggtcgtg gtcaacttag cataatggat 240
cagcttggtg aaaaggggtg cataagtgat tcgctctcat tgtgctatgg tggcatggat 300
attgggtggcg gtgctatggt actcgggtgga atgcttgctc ctccagacat tgatttttca 360
aactcggacc ctctccgcag cccatattac aacattgagt taaaagaaat acatgttgct 420
tgaaa 425

<210> 41261

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C4

<400> 41261

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cgtggccaag ctctgaagg tcgtcgcagc gcggccgtac tctgtgtcca tcatggagat 120
cagcgagccc attttgccg ccgcgttgcc ctccccctc gcggcgcccg gccgcgcgg 180
caagggtggt aagcgcaaga tcaagccatc agcggcaacc catgaggatt ccaacatgat 240
cccgcgcaag cccgtcgaag cagtgggtgt gggtaagggt aaggtggcca aagataccgt 300
gtccgagtca cctgtccta gcccccccc cgtctccgcc ccttagttgc gtgttgggcg 360
ccgctgcccg ccggcccccg gccaccatgc gtcgtgtctg cgcgcgcacg cagcattga 420
acgggagata gaatatggta tc 442

<210> 41262
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-025-Q1-K1-C5

 <400> 41262

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 cggaataata ggagattcat ggtgtatgtg cactcgaaag gcatgattgt ggatgatgaa 180
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 cgtggataga ttttcgggta caggaaaata cagtgtacgt gttgaaactg ttatcctgcc 360
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 aaaactttgc tttctttgct gtgatgatta 450

<210> 41263
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-025-Q1-K1-C6

 <400> 41263

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 cagcgtctcg gaaaagagga gcagcacggc acggcggcga tggcgaggaa cgctccaata 120
 atatgctaac ccgttctacc cagtccaatt agcagcctcc caaggagaag gagatccaat 180
 cctgcgggcg ggcgtccccg tatcccatcc atcgatccga atctcggaat ctgcaggacc 240
 ctgcggcgcg gcttcttcgt ggagaagagg ttgctgccga agccaccgcc aggtagccat 300
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<210> 41264
 <211> 387
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-025-Q1-K1-C7

<400> 41264

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aggtaccccc cccggcagaa gatcgtgttc cacatcgaga agggctgcaa ccccaactac 120
ctggccgtgc tgggtgaagta tgtggcggac gacggcgaca tcgtgctgat ggaaatccag 180
gacaagtgtg cggctgagtg gaagcccatg aagctctctt ggggcgcat ctggaggatg 240
gacactgcca aggcgctcaa gggccccttc tgcattcgcc tcaccagcga gtccggcaag 300
aaggtcatcg ccaaagacgt tattccggcg aacttgagac ccgatgccgt ctacactttc 360
aacgtncaat tctactagac tttgaat 387

<210> 41265
<211> 53
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C8

<400> 41265

ctcaaacttc ctcacattcg ttcaggttat cttaccaat ctcactaca atg 53

<210> 41266
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-025-Q1-K1-C9

<400> 41266

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caccaccacc cccagcagct ccaatccctc caccaggcac tgctccatca agtgatggag 180
ctcagaacta tccacctggt gtaacaccac caagttctgg ctcactcact caccctgttg 240
caacatcagt atatgcatca tctggtgcac caaatgcacc atcgatatac cctccaccac 300
cttatagtta ttctcatac taccctccac catttcagcc accacctnca ccaccaccac 360

cggttagtgt tgatccctct cagagtattg caactgcacc ttggctaacc cacagtgtgg 420
 tggtgccacc accacccgag agtggtgatc 450

<210> 41267
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D1

<400> 41267

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 cccaccgccc caggccatgg cgtccgcata cccgcccga caatattgtt cgccgtacgc 180
 ggcgtacccc cggtacgctt acgggtaccc tgctccgcca ccgtacgggt acaatgctgc 240
 ttccccacaa cgggcgatgt acaactacgc agcacagccc gtagctgcac cggcgaggca 300
 tggcgagggt atggggatgg ggctcggcct agggctccta ggcgggtgcgg tcggggggat 360
 gatgctcgga gaggcgatcg gtgactatga gaccgacgcc gcttatgatg ccgggttcaa 420
 cgatgcattg gcattttaga tctatg 446

<210> 41268
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D10

<400> 41268

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 cagaggagag gttaccttgg acaacgcaac ccagggtgtg aagaagtacg agtgccagag 180
 caccaccgct tcaggaggag ccgagatctg cgcgacgggt ggcgtgtga cccccagcat 240
 ctacgggcag atgaccgagg gcgtgacggg gagccagggg ctgtaccagt acgggccttt 300
 tctcatccag ctgcaagact gcacctcgt gcgcgacacc ttcacgacca tcaaccaagg 360
 ctactgcccg gagctggagc gctacagcaa gtgggtgtac gtgggcctcg tgatggtctc 420

gttggc

426

<210> 41269
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D12

<400> 41269

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acagtaaaga catttactcc ggcgaaacca gctgggtctaa aaaaccggg acaatatcag 120
caacctaata ccttaggttc ccagctttac acgggcgcta cgaatcaacc gtattcttct 180
ggaccatctg ctcccttatcc aagcggacct ccaacaacat ttcacagcc tgtagcacct 240
gttcaatatc agagtgtgc tccaccagta tcttcttttg gtccaaccac cctgtacca 300
ggaacagtcc ctaaccagat gttttcccat tctgctgcta ctaactcgac ttgcagggtt 360
atgccatcga acaatcaaag ctttgctcca aggccagggt taagtccgtg gcagccctta 420
ag 422

<210> 41270
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D2

<400> 41270

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ctagcgggtg ccgccgatgt cgccaacgcc ggccacgcca agcccctgac gcctggcggg 120
cgcggtgtac accacaacca cggcaagttc acggccgggc cgtggaaacc cgcccacgcg 180
accttctacg gcgggcggga cgggtccggc accacggcgg gcgctgcgg gtacaaggac 240
acgcgcgcgc aggggtatgg cgtgcagacg gtggccgtga gcacggtgct gttcggtgac 300
ggcgcgccct gcggcgggtg ctacgaggtg cgctgcgtgg acagccctag cgggtgcaag 360
cccagcgcg gcgacctggt ggtgacggcg accgaccttg tgcccgcgaa cgacc 415

<210> 41271

<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D3

<400> 41271

gagaagaagc agtcgaaccc gatgcgggag atgaaggtcc agaagctcgt gctcaacatc 60
tgcgtcggcg agagcgggtga tcgcctcacc cgcgccgcca aggtactgga gcagctgagc 120
ggccagtcac cgggtattctc caaggcaagg tacactgtga ggtcgtttgg gatccggcgc 180
aatgagaaga tcgcatgcta tgtgacgggtg cggggtgaga aggcaatgca gctgctggag 240
agtggcttga aggtgaagga gtacgagctg ctgaggagga acttcagtgga cactggctgc 300
tttggatttg gcatccaaga gcacattgat cttggcatca agtatgatcc atctactggt 360
atctacggca tggacttcta cgtcgtcctt gagcgtgctg ggtacc 406

<210> 41272
<211> 155
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C10

<400> 41272

cacattcttc catcgatcgg ttctcatcgtc cgccaacatc cttcttgatt gttatttgtg 60
caacacccag ggcggcaggt gggaggacat gagctaccat tgaaccatgg ttgcagcccc 120
agtacgcgct tgagtgtctg tgctggctct agcac 155

<210> 41273
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A2

<400> 41273

gagatttggg gatccaagta gatcagaaga atgaagctgt cctcttacct atttatggta 60
ggatggttcc ttccatggt tctactgtca agagtgtgac aagtcaccag gacaaccgca 120
cctgcactat ccgtatcttc ttcaatgtgc ctggcatgcc attctcaaatt gatagcaagt 180

ttaattctca aggtgctatc tatctgaaag aaattacatt ccg

223

<210> 41274
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A3

<400> 41274

ctgcagtcac ctcctccacc accaccacca agctcaacaa cagccagctc gcgaaaataa 60
tgaagagccg cagcatggca tcatcggccg cgctcttggt gctagccctc gcgctagtgg 120
cggccaccgc cccacaggta gcggaggcaa agaagaagag agcggcgagg agcggcgagg 180
cggcgagggc gaagaagatc caggacgact tctgctcgac gctgtgagag ggcaagaagg 240
ggacggacct ggtcgtgtgc aaggagtcct gcgctctctc ccagcagtc aacctgggtgc 300
tgtacggcag gatccagtgc aagggaagt gcaccgagca gaagggcac acg 353

<210> 41275
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A4

<400> 41275

ctttcaagcg cctaggctgc taccttagaa tcaagcctgc ggtagagggg ataacctgc 60
cggagaagac agctatctcc atagaccgaa ggaccttcca aattgaaaat aataataata 120
tgagatcagt ctgggctggc ttgggcagga agcgaacagc gcagtataca attgcccctt 180
tgcagagctt gtcgcttgga gtttaaggct gctggtggca agaatacatg gcaaagtcag 240
tcgtaaattc atactgtaat acatattcct taggcatgcy aggcaatatt tgcccagagc 300
caagctgcgg acaagctgcc atcgctgtcc gtccat 336

<210> 41276
<211> 159
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A5

<400> 41276

aatgatgag atcatggcta ggggaacctt tgccaacatt cgtcttgtga ataagttctt 60
gaaggggtgag gttggacca agacaatcca tgttccattt ggggggaacc ttgcagtttt 120
tgatgctggt ttgaaatcca aaattgaagg gcttgcctt 159

<210> 41277

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A6

<400> 41277

aatcatcaac tgggaaagca tatgcttctt cagttgatga tttgcttggc ggggaaccta 60
ttgctgatac aagtgtcact gctgatagca atggaagcga tccatttgca gatgtatcat 120
tccatgaggt agaggctaag gagactaatg atctcttctc aggattgata gtagaagaaa 180
aatcatcagc taccatgcac ggcagttctt catcaaacia aaatgaatta ccagatatct 240
ttggcagccc ccttgattct ttcaccaag gtagtggtac tgaccaagga actgtcaatg 300
atgtgatgac tgggttgaac cttaatggaa caggtcaggc tcagcctcca gttaaagcag 360
aaccatag caccttcagt ggatcacagt tctttgatac aaacaatgac atcgcccatg 420
t 421

<210> 41278

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A8

<400> 41278

ggcagcagta cagacggcaa taccgagagg aggtcctcgg caaggccgac gcgaggggta 60
agggtgatta tcatattgat tatgtgcctg ctccaagaat taccgaggcc gacaaaacia 120
atgaccagaa gtctttacia cgagctcttg ataataaact ttatctcctg ctgtatggca 180
atgcttatgg ggctcctgat ggaaagcctg tatggcattt tccggaaaaa gtatacgaaa 240
atgaagaaac tatgcgactg tgtgcagaag ctgcattaaa atctgttctt gggggacttg 300

accatacata ctttgttggc aatgctccaa tggctcatat ggcagttgaa caaacagatt 360
 caagtgtttc atcattcaag cgtttctttt tcaagtcaca agtggttggc acaacgaaat 420
 accatgttgg aaaatgcaag gac 443

<210> 41279
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B1

<400> 41279

cccaaagata gcatagcagc agcactcaca atagcaaaaa ccaccatccg tcgtcgccaa 60
 ccgtagcaag aacatcacca cgggccagca ataatggcgc agagcatgag gattgtggcg 120
 ctggcccttg tggccctgct ggtgggtggcg gcggcggcgc ccgtggccac cgcgtacggc 180
 tgctacgacg actgctacga gcgctgcgcc aacggcaaga aagaccccg ctcaccaag 240
 atgtgcaacc aggcgtgcgg ctccacggat cagggcgccg gtgcgcgcgg cgcgcgcgg 300
 gcttgatcgc ccagcgcatt catcgcttca gctcgatata atcgctgctc cgtcagcaac 360
 ccacatatga ttcgatcaat tttccttctc taatttctcg accccgctga attttttttc 420
 ctttctattc ttttactata ctactactat ctgttt 456

<210> 41280
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B10

<400> 41280

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 cagaccacat taagtcgcgg gggacatgaa caacgtcgcc tgcgctgtac ttgccgccgt 120
 cgtctcctcc accgtagtcc ttgtcgccga ggccccgct cctctctca ctaacgcctc 180
 ctttctgctt ttccctgcgg tcatcaccct tcttagcgcc tccttgcttt acttctttgc 240
 ctactacctt tagtaaacct taagtaggat cgaagggaga cgcttcttgc tttccatacc 300
 tt 302

<210> 41281
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B11

<400> 41281

cgcaagcact actcggtcga tgttggtgtt gcgtggtaca ctgtaaactt agtagtagtc 60
tgtgtcgaca acaagctggg gaaatgccgg atcggacgag tggactacat ttgcttccat 120
taagctccaa agaaaaagag ggcaggcaga aggaggagaa agacagttaa ctgaaggacg 180
agttccacaa gttactgaat ggggaaccatg cggatcctac tgatcggcga cagcgggcac 240
agatgaacgg gaggcacgac gaagacatca atcacgcgct ctccgaggcc actgccaacg 300
gcacgtaagg gcccgtcggc atctgctttt caccgggggc ttg 344

<210> 41282
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B12

<400> 41282

cccacgcgtc cgaccagggg ttcagttcgc tctcctttgg ccagtgccct acttattegc 60
tacactagcc aggtgattag agagtctggt gtgaaccaag gtggagatcg tcctttcttt 120
gatttccttg agtctgtct cgggaacaaa gctgaaatgg tcatacttga ggctgcaaga 180
gcaattactg aactgaatgg tgtcacaagc cgagagctta cacctgcaat tactgtgctg 240
cagttgtttt taagttcatc caaacctgtt ctgagatttg ctgctgttcg cacgcttaac 300
aaggttgcat caactcatcc ttgggtgtc acaaattgta acatagacat ggagagctta 360
atctctgac agaacaggag cattgcaacc ctgctgatta caacactgtt gaagacaggc 420
aacgaatcaa gtgttgatcg tttaatgaaa caga 454

<210> 41283
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B3

<400> 41283

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gacctgttca tgaacggcgc catcttgaat ccgtccggcg gcgcccccaa gcaggtcgac 120
accaacgagt gggtaaagcc caagccagga acctacgtta caaggetcac ccgcttctcc 180
ggcacactgt cctgctgcac gggcaagccg tgctgaaggc cgggtgggcat caggctgttt 240
cttctagctc atggcctggc catgccaggt cgcgctggct gcgtttcatt tcatggaaga 300
aagcaaggat ggatcacagg ttgtcgttct gctaattaat ctacatacgt ttgccttcaa 360
gtactgtgtt gtggcattgt tacacatcac agtacagttt gggcaaattt ttttttcaca 420
g 421

<210> 41284

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-025-Q1-K1-B4

<400> 41284

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tcttcctcgt cgtgctcctc ctagccgccg tcgccatggc gccgttcgcg ggcgcggcgc 120
gcatcgacgt cgtcgagggc aggtccatgg cgtccgcgga cgcaccggag gccgtcgncg 180
acgtccccgc tctgctcct ggccccgact cctcctcgac cccgtcgccg gcacccttca 240
gcagcagctc ttctgactag ccgcccggca gagatatcta cggcgtccga tcagtctttg 300
gcgccaccta taacctatcg gacctgcaa agctatatat gattctatgg tataatgtgt 360
ggttgcggca aacgcgcgga aataatgtgc ttgcgtgatt ggttttctct ctcttttttt 420

<210> 41285

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B5

<400> 41285

cagacacgtg agcatacgcy ggggcagccg tggcgagagc agtcttgoga atacacccaa 60
gaacggagaa gatgtactcg aacgccagga tgcttggacc actatagaca ggagcgacta 120
agaggttcat ctgacagaca tggagaggaa gaaggacctt tgtgtcctgc ttggcgccga 180
cgactgggga gcgagctggt gggactgggc tgctaacggg cgccctctga agggcgcgaa 240
ggctcggaca gcgagagagt tggacataat tcaaggggcy cctcttgctg gcgtctgaat 300
gacgcctgtg tgctacaaag cctgcttcga tgcatatagc ttgagtgtaa gacgacatga 360
gcggtagaaa cgttaggatg caaccagtgt gagtatac 399

<210> 41286
<211> 128
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B6

<400> 41286

gaaccgatcc ccgctatctt actcccgctt gtttcattgt tccgttgctt tggatctgag 60
tctcgagatc ctccctgtc ctgctgctcg aggagccgcc aaggatacca aaataccatg 120
atgcaggt 128

<210> 41287
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B7

<400> 41287

gccgaaccct cctccgttcg ccgaggcgga gcacgccctt ccaggccagc ttccaccgga 60
ggaggagcta agtcgcctgg aaggcttccc agctagtagc gtgtgccgta ccccgctcgt 120
caaccgggat ggcgtcgagt ggggatccgc ccgatctgc tgatgagaag aaaactccaa 180
tatccgaagg gtcttccgac gaacgtcaag ggcttccctc agcaggcttt tcaaactcct 240
ttgatcttgg ttctatgcaa gtttgctcaa tgatccatct attaaaggag atggcagatc 300
aaatt 305

<210> 41288
<211> 377
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-025-Q1-K1-B8

<400> 41288

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ggcaaaaatt attgcaggaa ggagcatccc agctattgca acttcaactg ccatggcgac 120
aggactagtg tgccttgagc tttaaaagt tctggccaga gggcacccaa tcgaagacta 180
ccgcaataca tttgctaacc tggccctacc gatgctcacc acatctgaac ctcttcccc 240
cactgtgata aagcatggag atatgacgtg gaccgtatgg gatcggtggg ctatcgaggg 300
agacatcaca gttgcagagc tcctgaagtg gttaagcgac aagggcctga gtgcgtacag 360
tgtctnctgc ggcacat 377

<210> 41289
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-B9

<400> 41289

atcaccacca aactcaacaa cagccagctc gcgaaaataa tgaagagccg cagcatggca 60
tgatcggccg cgctcttggg gctagccctc gcgctagtgg cggccaccgc cccacaggta 120
gcggaggcaa agaagaagag agcggcgag agcggcgagg cggcgagggc gaagaagatc 180
caggacgact tctgctcgac gctgtgcgag ggcaagaagg ggacggacct ggtcgtgtgc 240
aaggagtcct gcgcgctctc ccagcagtc aacctggtgc tgtacggcag gatccagtgc 300
aagggcaagt gcaccgagca taaaggcatc acggggccgg ccatgaaggt ctgccaagaa 360
gagtgcgaca ag 372

<210> 41290
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-C1

<400> 41290

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gggcgagtgg cggcggctga tgtggagtgc cgttgcttcg tcggcgggct tgccctgggcc 120
accagcaacg agtcgctgga gaatgccttc gccttctacg gcgagatcct cgactccaag 180
gtcatcaccg accgggagac ggggaggttt cgcggcttca gcttcgttac cttctccttc 240
gagaacttca tgctcgacgc tatcgagaac attaacggca aggagctt 288

<210> 41291

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-D11

<400> 41291

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cagcccgcgc cctccatgaa gcgcaatccc ctcgtcacga gctcccgccg gaagtgccgc 120
aaggcgcact ttacagtcct gttctccgtg cgccgcgttc tcatgtccgc ggagctgtcg 180
accgagcgta cacacaagta caacgtgcgc ttcattcctga t 221

<210> 41292

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-D9

<400> 41292

cagtcattgt cgctacaaat atgttggaat gcatgattga ccattctact cccacgaggg 60
cagaagtttc tgacatagct attgcagttc gggaaggagc tgatgccatc atgttatctg 120
gcgaaactgc tcataggaaa gtatccacta aaggcagtcg aggtgatgca cactgtggca 180
ctcataacag aatacagcct ttataacca actacttcta ctagtctcga tgcattctga 240
caggtgtctac aaaatgaggt cttctacgca tgccagctaa gtaaaatgtt ctgattctcat 300
gcaacgatga ttgacaacat ctttcgcaca ccaatcattg tctttacaca gacaggctcc 360

atggctgt

368

<210> 41293
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-E10

<400> 41293

agaattacgc ctccttatat ttactgaga tctccgagct actgaggaga ttaccaaggg 60
ttatattggt gatgcttaaa acaaagact gtttacgtgc agtcagtcac gccctgggtg 120
ggggcagttc cttggagtcg tttatgatta ttggacgggt atcttctgaa gctgtgctgg 180
atgctaaaag gatgaacagg aggtcctttc tcgatggatt gaagatatgg ctggaggaag 240
ccctgctgga agctcgattc ttactttga agctgatgct atgtgttatg caacttagga 300
agttgttgcc tggctaaaag cagttaggcg tatcatcagc ctttttgacc ggtagaactg 360
ctgagttgac atctagttcc atatattttc ttgagggcga aacttgacat tttgcttaga 420
agatt 425

<210> 41294
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-E11

<400> 41294

caaagggttg gatgacatct gctgctgaaa gtatcacctg gagcctccga cggctctcgcc 60
agatgatggt tcaggaagtg gaaaggagt caagtacctt ggcaacattt gatgaatcaa 120
caagtgttct ccggaaggct gaaggatgaat atcaaggaca ccgctctttg ctaatgcgta 180
cccgtgggtt gctctccacg atgcaacagc aagatgttct tgataggtag gtactctcac 240
tcctttatac agttcaaaac tgggatcact gaaaataagt gtataatctg ttcttatagc 300
ttgcactatt tgttttacag tctaaatatt taaacttaat gaaatatctt tatatagtgt 360
gtacacctaa cagctcttca catttcaatg agcatctaca aattgaactt taaccattgt 420
tcctttcg 428

<210> 41295
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-024-Q1-K1-E12

 <400> 41295

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 cgcccgtctc aacgccaccc gcaatggccc agagcacgag gatggtggcg ctggccctgg 120
 tggctctcct ggtggcggcg acggcgctcg tgcccacggc caccgcgtac ggctgctacg 180
 acgactgcta cgagcgggtgc gccaacggca agaaggacga ccccgctgc accaagatgt 240
 gcaaccaggc gtgcggcagc accgacaagg gcgccgccgc cggcgcgcgc gcttgatcga 300
 cccgggcttc atcggcgcg gcggctcagct cgatatcagc atcatataca atcgctgctc 360
 cgtcgctcac gtcagcccat gcatgatctc tcgaccggc ccattgaatc ttctncttct 420
 actatagtat atctttg 437

<210> 41296
 <211> 268
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-024-Q1-K1-E9

 <400> 41296

ctgacgcgtg ggcggacgcg tgggcttgta ttgacacacg tgaacactac tatcgcttg 60
 cctggcgata aactatttg cgtgggcccc cttcttctcc cactcggagg cggacggtcg 120
 cgcggaac aaacgcacc tcaaccaccg aacatttaaa gcaactacaa cgacagacgg 180
 gtaaccgaca gactcacgtg gtaccgacag gctaactgac accacgctcc tgacaacgtg 240
 cgggtacacg ggctaaataa cgaaaaac 268

<210> 41297
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-024-Q1-K1-F10

<400> 41297

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tcccgtctcc tccagtagcc cttccactcg caagaagcgc ggggcgttca gcctcttcag 120
ggcgatgttc ctgtccttcg gccggagcga cgacagcatg aagaagacag acgacgacac 180
cacgagcccc aagaagagag ccatcgcggc tgctgatgac gattgcaagc ctgccggtga 240
cgagtcaacg tcgtggaagc gcctcgtgga cggtatgcgc ccgctccgcc tccgcgggca 300
gctggagtac taccgctcgt caccgctcgt accgctcgtt ggccacgcgc atgtgtacca 360
tgacgtgatc ctcccgcgt cgtcgcaggc acggttcggc ttcgagatca aggaagtggg 420
catgacca 428

<210> 41298

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-F12

<400> 41298

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tctcccaaaa acttcgggtg ccgcacatga gctgctcccc tccctcatat tttggtgtga 120
gtaatctttc cccaatccga gctcccgttc gttctcccgc gtttttttgg taccgcacgt 180
cgctttttgtg gatgttgccg gaagcgacgg tggtagaaaa gccatacact acgttcgagg 240
atgaggcgct gggagattca acccgagaa tcagtcgctc caaatgttca gcgcgtatca 300
tgacggaacc gccatacctt gcgagaagtt gtctccatcg gtgacaggct c 351

<210> 41299

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-G12

<400> 41299

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cgtaccactc gtcttcgtct agcctcccgc ccgcagccac catggcaccc ggcctctaca 180
 ccgacatcgg caagaaaacc agagatttgc tgtacatgga ctacaacacg caccagaagt 240
 tctccctcac cacctgctcg ccccatggca tcgcaatcac agctgcagga acaaggaaaa 300
 atgagtccac cttttgcgat cttcacactc aaatttaaga acaataaatt gacggtcgat 360
 gtcaaagcga actcagaatc acatcttgtg acaacaatca ctgttgttga 410

<210> 41300
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-G9

<400> 41300

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 atcacgtctc tcttcgttca tttccccctc ttcttgcaa ttgatgagga agttcagatg 180
 caatttgttg cctcccttct tgaagtcctc gcttccttga acttctagta gtaacctgat 240
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 tacatgtgga gtgaataaga atgaggaatc attcatggag ttatgtgtgc ttcaaatgt 360
 gtaaaaaaat agctcttctc aaagaacatg tccaggcagt ccatatgtac aaata 415

<210> 41301
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-H10

<400> 41301

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 gcggcggtga agccggcgct ggccaagggg acgccgtcgg cgtcgttccg gctccgcaac 180
 gggagcctga acgcgggtgcg cctccgccgc gtgttcgacc tgttcgaccg caacggggac 240
 ggcgagatca ccgtggacga gctggcgcat gcgctggatg cgctgggcct ggacgccgac 300

cgcgccgggc tgtccgccac cgtcgggcgc tacgtgcccg acggcgccgt gggccttcgc 360
 ttcgaggact tcgacaagct ccaccgcgcg ctcggtgacg ccttcttcgg cgcac 415

<210> 41302
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-H11

<400> 41302

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 tcttcatggc ataccgcacg tctgtctgcg ccgcgagggt gatcacgtgg gtgaagggca 180
 cgacgtctaa tagcttggcc agtaagcggc cgtccttgat gtctccctcc acgacgaaac 240
 tcategtggc tggccatcaa cgcgcgctgc gcctttttga gcgatgggtc gtagtaggag 300
 ttgaagctgt cgatgcctac cacacccttg ccgcgtttgc tgagcgccag cgagcaatgc 360
 tctccact 369

<210> 41303
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A10

<400> 41303

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 tattttttgt gatatggatg gtacgtgct caacagtaaa agtcaagttt cagcaaggaa 180
 tgcagaagct ctaaggaag ctaggtcaag aggagtaaac atagttattg cactggaaa 240
 ggcacgtcct gctgtaatcg acgctcttag tatgggtggac ttatctggaa ggactggtat 300
 tgtttcagaa tcatcacctg gtgtattcct tcaggggctt gtgggttatg gtttggaagg 360
 gagacggatt tataaaagaa atttgacca agaagtatgt agagaggcac tctcatattc 420
 tatagagaac aagataccat tagtagcat 449

<210> 41304
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-A11

<400> 41304

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tgcacgtgac atggtgagaa ggaagagtca aagggcatcg atgcgaaagc gtccgggcct 120
ggtgggtcct tcgacatcac caagttgggc gcctccggca atggcaagac agacagcacg 180
aaggctgtgc aggagggcatg ggcattggcg tgcggcggca cttggaagca gacaattctc 240
ataccaagg gcgactttct tgtcggacaa ctcaacttta caagcccttg caagggcgac 300
gtgaccatcc aggtggatgg caatcttctg gcgaccacgg acctaagcca gtacaaggaa 360
catggttaatt ggatcgagat tctacgcgtg gataacctgg tca 403

<210> 41305
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-D10

<400> 41305

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gcgggaagga cgggtgttact ctgctgtggg atttggctga ggggaagagg ctgtactcgc 180
tggacgcggg ctccatcacc cactctctct gcttctcacc caaccgctac tggctctgcg 240
ctgcgacgca tgactctgtc aagatctggg acctcgagtc gaagcacgtt gtgcaggacc 300
tcaagcccga catccaggtc tccaagaacc agatcctgta ctgtacaagc ttgagctgga 360
gtgcggacgg aagcaccctc tacactggct acaccgatgg gtctatcagg ggttgaaga 420
tc 422

<210> 41306
<211> 322

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-023-Q1-K1-G5

 <400> 41306

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 gagcgcaacg aatgttacat gggcgaccgg gcagagatgt cgcgacaggc ttacgattgc 120
 tatcacctgt ttgcaagat ctatatgccca ccacctctcg gcatcatgca tattcgttca 180
 cgacagctac ggctgttcgc atatctcggc gttacactag ttgaagacca tggacatggg 240
 caacatcaca aatgtcttag acgagccata gcacctaacg ccgactgggc tgttaatcgg 300
 acctactaag tacatggtga ta 322

<210> 41307
 <211> 267
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-023-Q1-K1-G7

 <400> 41307

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 gcttaacaat ttttatcata tgagtctgat gtttgtcagc ttccaattca catttcttgc 180
 taggcttaag tatatgcttc cttgtacaac aaatcatatg atgcaaggga ttcaactgtc 240
 gatttacttg gatcgtaacat tcaattt 267

<210> 41308
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-023-Q1-K1-H10

 <400> 41308

 gttggaaagc atgattgacc atcctactcc cactagggca gaagtttctg acatagctat 60
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 tccactaaag gcagtcaagg tgatgcacac tgtggcactc agaacagaat ccagccttta 180

taaccaact acttctccta gtcttggtgc atctgcacag ggtctacaga atgaggactt 240
ctccgcaagc cagctaagta aaatgttcgg atctcattgc aacgttgatg gcc 293

<210> 41309
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-H12

<400> 41309

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gtggacggga gaaatctggc ccttataagt cttgcagctt gttgcccggt tggcaatggt 120
gcatttgagg acaggcggtta tgttttcaat gcatgtacat taaattcaat atgggtctggt 180
cacaactttt c 191

<210> 41310
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-H3

<400> 41310

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atctctgagc ttcacagag agcgacccgt caccgtcacg cttggccgca agccgagaag 120
agtgccgggc cgggagaccg gacgataatt gatccgtagc agattcgcta atggcggaga 180
cggcggacat ggagcggatc ttcaagcggg tcgacaccaa cggcgacggt aagatctcgc 240
tgtcggagct gacggaggcg ctacggacgc tgggggtccac ctctgccgac gaggtgcagc 300
gcatgatggc cgagatcgac accgacggcg acggcttgat cgacttcaac gatttca 357

<210> 41311
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-H9

<400> 41311

gagaaacctc cttggcggtat gcatgggctg actgtgtggg ttggcggtcg cgggactggc 60
 tgggtggcgag tgaattgatt ccgatgtcag gacctcgcca tagatccgcc gtgcgtcgtg 120
 ggcagccgag attttcgctt caaatgctgt gaggtgtcgt gtcacctgag gatcatcctg 180
 gtacctggaa tctcaagtcc caggagatga acaggtgggt catgtggagc cacacatcgt 240
 ggagttcgac ttgatctagg tg 262

<210> 41312
 <211> 274
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-A10

<400> 41312

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 ctattagttc gtaagacgaa tgctatattc atttcccaca actcttcaaa aagaatctag 120
 atattttttt gtcattgtacg tgcagactgg aatacaattt tgtatagtcg ttcattgaacc 180
 ggtgaaaaat atattttttta atacatttgg ctaataaaga attattcata ttagttttctt 240
 tttattttct ataaaacaaa cataatagat attt 274

<210> 41313
 <211> 306
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-024-Q1-K1-A9

<400> 41313

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 tctttgcata tatatgttgt cagatatttg ctccacactt atattattct gatatttagt 180
 tactagtagc tatgcaactc aattttcaat cacatgatta tgtatagttg tttctttgtg 240
 ttttagcacc tttgataact gaagcacact tgaaatttga ttcctttnta taaaaataaa 300
 ataaaa 306

<210> 41314
 <211> 288
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-024-Q1-K1-B10

 <400> 41314

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 tctttgcata tatatgttgt cagatatttg ctccacactt atattattct gatatctagt 180
 tactagtagc tatgcaactc acttctcaat cacatgatta tgtatagctg tcttctcgtg 240
 tattagcacc tttgataact gaagcacact cgaaatttgt attcccac 288

<210> 41315
 <211> 266
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-024-Q1-K1-B11

 <400> 41315

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 gctcgcaatt gttcaatgga tgccgtgttc tcatttacct taaagccgat tttctttcat 120
 tctttgcata tctacgttga cagatctttc ctgcccactt atattatcct cacatccttt 180
 tactagtagc tatgcagctc acttctccat cacatgcgtg tgtatacatg tactctcgcg 240
 ctctagcgcc cttgataact aaagca 266

<210> 41316
 <211> 284
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-024-Q1-K1-B9

 <400> 41316

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 gctcggaatt gttcaattaa tgtatgtttc taatttacct taaagttgat tttctttcat 120

tctttgcata tatatgttgt cagatatattg ctccacactt atattattct gatattctagt 180
 tactagtagc tatgcaactc aatttttcaat cacatgatta tgtataacttg tctttctcgcg 240
 ctttagcacc tttgataact gaagcacact tgaaatttga ttcc 284

<210> 41317
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-C10

<400> 41317

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 gctcaagttc caggagctca aggcgaatag gagcttccgc ttcacgtgtg tcaagatcaa 120
 cgagaacgtg cagcaggtgg tgggtggacag gctaggggag ccaggcgaga gctacgacgc 180
 cttcacggcc tgctttcccg ccaacgagtg ccgttacgcc gtgttcgatt ttgacttcgt 240
 cactgacgag aactgccaga agagcaagat cttctttatc tcttgggccc cggatacatc 300
 gagggtgaga agcaagatgc tgtacgcgag ctccaatgac cggttcaaga gggagctgga 360
 tggcattcat gtggagctac aagcaaccga cccgagcgaa a 401

<210> 41318
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-G3

<400> 41318

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 ggtggccacc ccacgtggcg ccatggcggt gggcatgtcc agccgggacg cgtgggcggc 120
 ggcgtacagc ggggtcgccg ccggggctgc cctcgctact ggcacggcg tcattggcgta 180
 cctgcgaaga tctgcctagc tagtgtgtg gcgcggcggc gcggcgcgca tattcgccaa 240
 tgcaagagca aggggttctt gtctgcctt cgaatcacca cagaggtgct agtatgtgtg 300
 gattacgtac ccaaccggtg tatgtgtgta ttctcttcta cacgaacatg taccatggca 360
 caaagtttcc att 373

<210> 41319
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-C11

<400> 41319

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aacaacaagt tctgcctgtg cgtccacttc cgctgcgtcc aggaggagaa atggcgcgct 120
ctggaggagc aggtccggtc ggtgctcaag gactaccggg acctccgect caccaagggc 180
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gatagcaccg acgaggacgc gttcaaggtc ctgcgcaact tggggcaagg gatcgggac 360
ctggtgagca agattccgaa ggagaccgc gcacccact ccttgcgta accttc 416

<210> 41320
<211> 81
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-C12

<400> 41320

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gactattgta ttattttgtc t 81

<210> 41321
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-E4

<400> 41321

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gatcgatcca ctcttgcttg aggttggtgc agttgaacac acgtcgactc aagctgcatg 120
ctagcgcaca ccgtctccgt ttagacgaga cccgtccatg gggttcgcat ccttcagcta 180

tgcgcgccgc gaca

194

<210> 41322
<211> 379
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-023-Q1-K1-E7

<400> 41322

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acgatgcgcg gcaccggcga ggcctggcg cgtgccggct acgccgtcta cggcctggac 120
tacgagggcc acggccgctc cgacgggctg cagggtacg tgccggattt cgacgcgctg 180
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aaggacccc accaacttcc ccggttctc ctcgngagt ccatggcgcg cgcctggct 300
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tgcaagatcg gcgacgaca 379

<210> 41323
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-E8

<400> 41323

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ctgcattgtg gatttttggg gccgttgatc gagccacgcg tgcttgaggc ttgagcagtt 120
gaacacgctg ggactcatgc tgcaggctag cgcacaccgc cgcgtctcg acgtgaccgc 180
gcgatggggg gcgcaacctt caccgatgcg cgccgcgaca tggcgcgac c 231

<210> 41324
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-E9

<400> 41324

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 gttcggcgcc atggccgacc tgggcaagta caaaaccacg gtgaaggtgc agactatccc 180
 gctgctgaag aacccggtgg aggacatcta ctactacgtg cccatgggtgg gtatctccat 240
 cgggagcaag cggtctgacg tgctgaggc catcctcgcg ccgaggcccg acagcacctg 300
 cggcacggag cttgactctg cgaccacact ggcataacct gtggagccgg ctttcaagga 360
 gctga 365

<210> 41325
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-F11

<400> 41325

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 accatatccg atgtggaaat caaagagcac ggtggcgatg acttctcett tacgctcaag 240
 gagggaccga ccggcacctg gacgctcgac accaaggcct cgctcaagta ccccttttgc 300
 atccgctttg ctgtcaagtc tgggtggctac cgcacgctcg acgacgt 347

<210> 41326
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-F3

<400> 41326

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 aaggcagcga acacgatgac accgtctacc catacatcgc ctgcatctgc tctataaccc 180
 cgttccagga ggtgtacacg ttcaccgcca tgcgggacac gtgcaattac gctatcatcg 240

acaacctggc acgtctgaac aatcacttgg acacgttcag catacgcacc gctcaggcgc 300
gcatgcacgt cgcgaggccg atcaactacca tcccgcgc 338

<210> 41327
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-F4

<400> 41327

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aggaccccca aatcatgaag atgggttcaaa gtgggtgatgg gaggtgtgga tcaactcggtg 180
cggcctcttt cgaggctccg gagaaaatga tttgtgaaga cgacacgtat cctaagaaac 240
aagctttgtt tgatggggaa acacaattag ctggagacga gcattctcag tcacagaaaa 300
tttcccgtag ccggattgaa cattctcagc tgtcacctct tcacgaggaa cttattccca 360
cttcaattca tacccttga tc 382

<210> 41328
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-F5

<400> 41328

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agaaggcggg cgcggcggag aaggctgccc agcaggagct gctcaagtac gccaaaggaga 180
agggcacgtg gtcaccgacc aacggcacgg ggtggtacaa gggcatcgcc cgggagttcg 240
tggaagccca caacgagctc cgcgcgcgct acggcgtgcc tgccatgaag tgggacagga 300
agctggcgcg gcatgcgcgg cgctggtcca accgcatgcy caaggactgc gagctcgtcc 360
acagcggcca caagtacggc gagagcctgt tcaggagcca cgacgactgg a 411

<210> 41329
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-G1

<400> 41329

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gaattgcaag aggggttggtg tgaggggcaat gtcgcagaga ggtgccc aag gacttcccat 120
tgatctcaca ggtaaaagag catttatagc tggagttgct gatgataatg gttatgggtt 180
ggcaattgct aaggctcttg ctgctgctgg tgctgagatt cttggttggt a catgggtgcc 240
tgcgttgaac atatttgaga caagcttgag acgtggaaag tttgatgaat cacggaagct 300
acctgatgga tctcttatgg agattgctaa agtatatcca ctggacgcag tttatgacac 360
ccc 363

<210> 41330
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-E3

<400> 41330

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tacgacgtgc tggagatcag cactgacgcc tccatggccg acatcaagaa ggcctattac 120
ctcaaggcca agctggtgca cccggacaag aatccgggca accctgatgc tgcgcgcaag 180
tttcaggaac taggcgaagc ctatcaggtc ctaagtgatc cagtgaaaaa ggagtcatac 240
gataagtatg gaaaggaagg actttcacac gactatcttg aagattatgt tggccaactt 300
gcgctagcat ctgttgcttc tgtagagatt gaggaagaat caaacacacc tg 352

<210> 41331
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-G2

<400> 41331

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 gtttctatgt ttgctttctgc tgataccaac aggggaagctg ttgtgtggga tcgagcaagt 180
 agagaggtca agctgaagaa catgtttgtac cacacagcca ggataaactc cctggccttg 240
 tcacctgaca gtcgattggg tgccactggc tcaactggaca cctgggcaat tgtctacgag 300
 atagacatgc cggggt 316

<210> 41332
 <211> 318
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-023-Q1-K1-C9
 <400> 41332

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 acatattgtg aacggagtag gtggccacta catggtatgc agctccagaa tcatgtgtct 120
 ccttttttttc aaagtacact acatccattg atattatgag caggaggggc atatctgctg 180
 aattagctac agtgaagcca ctctttccag ggaagaatgt tagtgcata ggtggatctt 240
 atgactgac tactagctac accttcagca tagtctatcc gcatgataag gcatgagaat 300
 gctcgacgat gcatgaac 318

<210> 41333
 <211> 468
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-023-Q1-K1-D1
 <400> 41333

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 gaggacggac gcacacttgc tgactacaac atccagaagg agtcaaccct ccacttggtg 120
 ctgcgcctta tgggaggcat gcagatcttt gtcaagacct tgactggcaa gacaatcacc 180
 cttgaggtgg agtcctcaga caccattgac aatgtcaagg caaagatcca ggacaaggag 240

ggcatccac ctgaccagca acgtctcatc ttgcccgcga agcagttgga ggatgggagg 300
 acccttgctg actacaacat ccagaaggag agcacctnc acttggtgct gcgtcttatg 360
 ggtggaatgc acatctttgt gaaaaccctt actggcaaga ccatcactnc tgaggtggag 420
 tcttcagata ccatngacaa tgtcaaggcc aagatccatg acaaggag 468

<210> 41334
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-D11

<400> 41334

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 acctcgcgcc ggccggccatc gtcggccacg acggtgccgc ctggggcgag agcacggcgt 120
 tccccgagtt caagaccgag gacatggcca acatcatgaa ggacttcgac gagccagggc 180
 acctcgcgcc gacaggcctg ttctctggac ctaccaagta catggtcac ccaaggcgagc 240
 ctggtgccgt catccgtggc aagaagggat caggaggcat caccgtgaag aagacagggc 300
 aggcaactcg cgttggcatc tacgacgagc cgatgacgcc tgggcagggc aacatggtgg 360
 tggaaaggct gggcgactac ctgcttgaac agggcatgta actactacgt accagctgga 420
 atgcatgtcg acg 433

<210> 41335
 <211> 150
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-D12

<400> 41335

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 tgggtgcgtc ggggaccccg cggttgctga ggaggtgcgg cgagaggtgg cgcacatcca 120
 ggggctgtgc gcgcagatgg accgactctg 150

<210> 41336
 <211> 205
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3075-023-Q1-K1-D2
 <400> 41336
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 gtgctgaagg gtataacagc ataggtaatg taacgagtgt gtgcacatgt aacatgatga 120
 ccgagaagag aaacatgcaa atggagaagg aattggttct gcctttctaa caaaaatata 180
 atataaaaag gaagaacaaa taaaa 205

<210> 41337
 <211> 213
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-D3
 <400> 41337
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 tttaccagct tcatgtacct caaagccaaa gcaatcacct gagctgtgta tgttcccaca 120
 gtatgttgtc ccgacaatgc gcacaccatt gttcatactt aatgcagcct acgattcgtg 180
 gcaggtaag aacgtcctat cacctagtcc agc 213

<210> 41338
 <211> 306
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-D7
 <400> 41338
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 ctaatatattc catataacgc gactttcaaa ttcttgccat gcatcagcct tcattttctc 120
 tctctaaagc accctcttaa gcttctcagt ggatactgca cccaatgatg gctaccttgt 180
 gccctatgaa gaatgggata cttctaactg aagtatgaga taagattatc ctctctcca 240
 cttataaaaag ctactcatc atgaatgact acaatgtgcc aaattctaaa acattactcg 300
 actttg 306

<210> 41339
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-D9

<400> 41339

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 ctacctcggc cggccgtgga aggagtacgc gaggacggtg gtgatggaga gcaccatcgg 180
 cgacctcatc aggccggaag ggtgggcgga gtggatgggc gacctcggcc tcaagacgct 240
 ctactacgcc gactacgcca acaccggccc gggcgccggc accagcaaga ggggtcaactg 300
 gccaggctac cactcatcgc gacaggccga cgccacgcca ttcaccggcg gcgccttcac 360
 cgacggcgcg tcatggctgc agagcaccgg cagccccaac gtcatgggat tcaccaaagg 420
 gtaatgatcg 430

<210> 41340
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-E1

<400> 41340

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 agctctaata ttccagtaaa aagggaacttt gagatgcttg ccatggatga gcatgcatct 120
 gctttctcta gaggacctgc tgaagctttt cagtggattg ggcaccaat gagggctacc 180
 ttgtgccgta tgaagagtgg tttaatttta actggagttg gagataagat tctccgcctt 240
 tgggtctgctg aaagctgcaa attcatgaat gactacaatg tgccaaattc taaaacatta 300
 gtcgactttg attttgatga aaataagatt gtaggtttga ccagctcca gatttgcata 360
 tggagacgca gtgaaccaag aggcataatt caatctggtg gacccatt caatcattgg 420
 ttatgcatga gctttgctga tccggag 447

<210> 41341

<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-E11

<400> 41341

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ggctctctaa gatgttggcc aggtggtttg tgtctatcta gatccatagg g gatcttgat 120
gttggatgaat gcatcattgc tgttcctcat gttaagcaag tgaagctttc taatgctgga 180
ggcagaatta tcattgcaag cgatgggtgtg tgggatgatt tgacttgtga aatggctctt 240
gattgttctc gtgggttctc atcagatgta gctgccaatc gaattgttaa tgaagcaacc 300
cggcctcgtg gaatcagggg tgatactact tgcacgtaa ttgacattct accaccataa 360
aatatagtcc cgagtcctcg taagagaccc cgcaggatta cattcaataa tgggtttcgc 420
ataagacatc tagacgtc 438

<210> 41342
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C8

<400> 41342

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cctgtgcatg gccgtgatgt agacaagcta cagcaccagg ggtatggaac tctgttaatg 120
gaagaagcag aaaggattgc tcaaaaggag caccgttcaa agaaattggc tgtcatttcg 180
ggggttggtg ctgcgcaact ctaccgcaaa ttgggttatg agctagaagg accttatatg 240
gtcaaattgt tggcataata ccgtttcatt tttttcgtgc tcatgtagaa cagactagt 300
tttataatgt aacttgtgta gttttttcaa aaaaaaaaaat aaatatttgg tatacccttc 360
tttttaatat tgagtcgtcc 380

<210> 41343
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-E2

<400> 41343

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cgcaggcagg aggcgaaggt tgtgaagctg cgggcggtgg aggccaagcc cgagtccttc 120
gcttcgttcg ggcaggatcat cggcgcccttc cccgacggcg acgagttcgg cccccacgac 180
gcccagctcg atctcagccg cggcatecca aggtttctaca tcatgcggtt gcagaaccgg 240
ccgctgaaat tctctaccat caccaccac gccagcgtga cccagtgcct gggctccgtc 300
ggcggccagg actggtacct cgggggtggc aaaccgtcga tcgtggatgg ggcgttcgag 360
cag 363

<210> 41344

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-B11

<400> 41344

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cgcgctcttg gtgctagccc tcgcgctagt ggcggccacc gcccacagg tagcggagggc 120
aaagaagaag agagcggcgg agagcggcga ggcggcggag gcgaagaaga tccaggacga 180
cttctgctcg acgctgtgcg agggcaagaa ggggacggac ctggctcgtgt gcaaagagtc 240
ctgcgctctc tcccagcagt ccaacctggt gctgtacggc aggatccagt gcaagggcaa 300
gtgcaccgag cagaagggca tcacggcgcc ggccatgaag gtctgccagg aggagtgcga 360
caaggcgtac g 371

<210> 41345

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-B3

<400> 41345

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tcaaaagcag gacccggggtt cttgtcaccc tgttgccgcy aaatgctgct gccatggagg 120
 cacttcttat atttcttgac agaattgtctc atcctgtcga tgctgcggta ttgccagtga 180
 catttgttct tgcctttgta gacgttatac cgcattgcaat ctgtaccaga tatggcctac 240
 caaccagtgc taactttgta tggtctgtac gcattctcat ggtcatttgc tat 293

<210> 41346
 <211> 336
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-023-Q1-K1-B4

<400> 41346

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 caaagttgct attgcgggag ctgaaaactg tgaaggcaga tttagctttt gcaaaggaac 120
 gatgtgctca gcttgaagaa gagaataaaa tgttgctgta gagttatgac aagggtgata 180
 atccagaaga tgatgatctg atccgccttc agttggaaac actactagct gagaaagcac 240
 ggcttgcgca tgagaactca gtatatgcac gagaaaacag attcctgcgg gaaatagttg 300
 agtatcacca gtcactatg cangatgtca tatatg 336

<210> 41347
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-B7

<400> 41347

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 cgacgtcatg ctcttcggcg ccagcgactc ctggccgcag gaccagatca tgcagatcac 120
 cgtcgccttc aaccacttcg gcaggggcct ggtgcagcgg atgccaagggt gccgctgggg 180
 cttcttcac gttgtcaaca acgactacac gcaactggctc atgtacgcca ttggcggcgg 240
 cgacgcgcca accatcatca gccagggcaa ccgctacata gcaccaccaa acatcgccgc 300
 caaagtgatc accaagcact acgcggaaga aggcgtgtgg aagaactggg tgtggcacac 360
 ggaggacgac ctgttcatga a 381

<210> 41348
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-B9

<400> 41348

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 gaggtggacg agctgcgcca gctcagaggc caaggccagg agctctggga ccacaacgga 180
 ggcaacggaa acccacgaca aaggcggaga tgacctgacc gcgaacatgg aacaaacaag 240
 gctgattata gggaggggaag gctaagatac aactcggaaa tacaggaaga acaagggaaa 300
 cgaaccaatc acccccgtgg aagctgacct ctgagagaac gaaaaccggg aaaagggacc 360
 caactgaaac aaaattgaa 379

<210> 41349
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C1

<400> 41349

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 cgacctcgtc cgccacagac ccgtttcccc gctagagtta tcgttctctt gcagcgatgg 120
 cgatcaagcg gaccaaggcg gagaagaaga tcgcgtacga caagaagctg tgcagcctgc 180
 tcgatgagta caccaagggtg ctcatcgccc tcgccgacaa cgtcgggtcc aagcagctcc 240
 aagacattcg ccggggcctc atgggcgact cgggtggtgct catgggcaag aacacgctca 300
 tcaggcgctg catcaagggtc tacgccgaga agaccggcaa ccacaccttt gaccgctca 360
 tggacctgct cgtcggcaac gtttgctca ttttcaccaa gggag 405

<210> 41350
 <211> 349
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-023-Q1-K1-C10

<400> 41350

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ctcatggtcg gatgaatggg ggtgtcgagc tatgcgcggt tgacgtcctc atcggagcaa 120
accccttcac cggttggttgc cttgtaccgt ggcctgggaa gtcggtgact gctcatcatg 180
gtaggaggcc ccgaccgacc gtgcaaccgt gtgccgacgc tgtggctgtg cgccaatgaa 240
atcacgtgag gtcgtgagtc atctgaggat catcctggta actgaatctc aagtccagc 300
caagacaagg tccgangatg aggcgcacga angatgctgt gatgtgttc 349

<210> 41351
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C11

<400> 41351

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caagagcatg attcagtgga ttgctacatc acaggctctt cgcccttttg ttaattacta 120
cacttttgag aacgtgtctc tgcaaagatt agaggagggtg atccagtgga tacgacttca 180
tggtgggacg gtcggcgagt tgtggcatat gctcatggag tactcatctc agaggctggg 240
aggagaaaacg cacaagggtt ttttggcctg gttgcttccc agcgacaggc ccaagaatca 300
agtgcattac atgtccgaat agcaataaac ccggcttttg tgaggagtgt gtgcatgaac 360
gaagttattg ctgacaaaaa aaaatgaaat aaagataaaa gcgtatgtat cagttgccac 420
gc 422

<210> 41352
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C12

<400> 41352

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 gccgagacgg cggaggactc tgtgatgcca gtacctaaat ctgttgtgac aaaaggaggt 120
 gttcaccaga gcaaggctgt tccgtcagca tcgattcatc atcaccact acaaggaggt 180
 ataagatgga ctctgagtct tcaaacttgg taccccaata tggggatttc ccatgtcgaa 240
 cctcaattca acaaaatgca caaccaccaa at 272

<210> 41353
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C3

<400> 41353

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 gacgttgcgc gcgcgcgcag gtggcgcgta cgcggggccg gggtgccgga agcacgtggc 180
 gagggtcacg gactacggcg cggtcgggga cgggaggacg ctcaacacgg cggcgcttcgc 240
 cagggctgtg gcggacctgg cgcggcgcg ccccgacggc ggcgctgcgc tgggtggtgcc 300
 gccggggaag tggctcacgg ggcccttcaa cctcaccagc tgcttcacgc tctacctcga 360
 cgagggcgcc gagatcctcg cgttccatga catgaagcat tggccctca tagcttcct 420
 g 421

<210> 41354
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C5

<400> 41354

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 gtacgtggac gagcacctga tgtgcgagat cgagggccac cacctcacgt cggctgccat 180
 cgtcggccac gacggctcca cctggggtca gagcaccgag tccccgagt tcaagcccga 240

ggagatggct gccatcatga aggatttcga cgagccgggtg cacctcgccc cgaccggcct 300
 gatcctggga ggcaccaagt acatgggtcat gcaaggcgaa cctggagctg tcacccgtgg 360
 caagaatgga tccgggggca tcaactgtgac gaaaacaggg gcagcactca tcattggcat 420
 cttcgacgag ccca 434

<210> 41355
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C7

<400> 41355

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 tattgagtct gatcctgggtg tgttcaactga gctgattcag caaatgcaag tgaaaggtgt 180
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 agatcctaac ccaaaccctt tctttgcgca ccaagtcac actaatgcat gtgctactca 360
 agctattctc tcagttctca tgaatcggcc tgaaattgac attggcccag aattatctca 420
 attgaaggaa ttcacaggaa gctttacacc tgat 454

<210> 41356
 <211> 281
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-B10

<400> 41356

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 aggaaaggat gaaatagtca ttttcaagag cttcctaaaa gctgggttga gatttcctt 180
 aaataggata atctctgatg tgctgcaaag atttggcatc tattttcacc aactgactcc 240
 caacgcgatt gtcaagctca gcgtctatat ctgggctctt c 281

<210> 41357
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H3

<400> 41357

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cccatgtgcc actgattggt ccatctgcta ctccaacaca tcaaattgtct catccttttag 120
gggggttcac tgctccacca ctctctctcc atgacacaaa tccgcatgcc agtcagtctg 180
caaattcttct aacaccagct ttctttgcac caccaccacc ctcttcaaca tctgtgacac 240
cacctgcttc atccatgatg cctacagcac cacctcttca tccgacttca acagctgctc 300
aacatccttc atatggcact cccttac 327

<210> 41358
<211> 325
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-022-Q1-K1-H4

<400> 41358

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cagattcatt ggttttctat tgtgaactct ctcatgatcg tgctttntct atctggcatg 120
gttgccatga taatgcttcg cactttttac agagccattt ttggatccat tcagctggaa 180
cctcaggagg aaccgcagga ggaaacaggc tggaagcttg ttcattgggga cgtattccgt 240
cctccaaccc actctgactt gctctgtgtt tgtgttgcca ctggcggtcca attctttggc 300
atgctcctag ttacaatgat cttcg 325

<210> 41359
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H5

<400> 41359

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gtcgtccttg cagcgctcgt cgccggcggg tcatgcgggc ccccgaaagt gccgcccggg 120
cccaacatca ccaccaacta caacggcaag tggctcaccg ccagggccac ctggtacggg 180
cagcccaacg gtgcgggcgc tctgacaac ggcggtgcgt gcggcatcaa gaacgtgaac 240
ctgccaccct acagcggcat gacggcgtgt 270

<210> 41360
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H6

<400> 41360

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caattccctt ccggagatac tgtgggggtg ttggtcgac cgcgcaagct aagtcgcgcc 120
actccaatgg gcagggcgcg tggcccgtta aatcagccag gttcatcctg gatttgctga 180
aaaatgctga gagtaacgct tatgtgaaag gcttggatgt ggaccaactt tattgttta 240
aacatccagt taaatcaagc ccaaaccag aggcgcgaa cttacgcggg tacagggcgc 300
atcaatccct acatgtecta accttgccac attgagctga tcttgtcaga gaaggaagag 360
cctgtgaaga aagaggctga caacattgtc gcagcaagga agcaatgaag tatatcagca 420
tgctgat 427

<210> 41361
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H7

<400> 41361

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aaggactggc tggacgctaa agcgacatgg tatggcaagc cgacaggtgc cgggtcccgac 180
gataacagta gcggctgctg gtacaaggac gtgaacaagc ccccttcaa tagcatgggc 240

gcatgctgca acatccacat cttcaacgat ggtctggggt gtgggtcctg cttegagatc 300

<210> 41362

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H8

<400> 41362

gcaaaagggt ggatcacttc agtttctcat cgcttgctct gtttttcttg gcactctcat 60

gcttcacgc cattggtgtt aatctgagcc aattcatttg tattgggcgc ttctctgctg 120

tatccttcca agtcttaggc cacatgaaga ccgtacttgt tctgtccctt gggttcctat 180

tctttgccaa ggaggccctg aatctccagg tagtccttga gatggttctg gccgttcttg 240

gaatgatatg gtacgggaac gcatctgcc aaccaggcg 279

<210> 41363

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-A1

<400> 41363

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gaatcagctc cggtcggcga cgctactggc cgtccccgac aaacttgcca agcctctggc 120

gtcgtgccc gccgataagg tgcggccggc ggtggagaac cagtccttc tcagttactt 180

cgaccccatc aagctggacg agatgaagac acgcaccgtc atccttccca cgctgctctc 240

cgtcaccgac aagaaactcg gcgtcctcaa ctacaccagg gccgacgacg ggcagatgta 300

cttcggcgct cccggcgccc cctgcgtggc caagctcgtg aaggctcgtc cagcgcgggc 360

gtactctgtg tccatcatgg agatcagcga gcccatcttg ccggcgcggt gccctccccg 420

<210> 41364

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-A10

<400> 41364
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ggcggggagat ggccggcggt caagcccaag aaggatctcc agatcaatcg cctcatgggc 120
acccacctcc tctccattcc agacttcttt acttctgcgg aggcgaaggc tttcattgat 180
atcgcttagt cgatgggctt tacgcacat ggcagtttgg ggccacttaa cggggaggct 240
tacatagaca acgatcggat atttgtgacg gatccattgc t 281

<210> 41365
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-A12

<400> 41365
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ctggtgggtc cttcgacatc accaagttgg gcgcctccgg caatggcaag acagacagca 180
cgaaggctgt gcaggaggca tgggcatcgg cgtgcggcgg cactgggaag cagacaatcc 240
tcatacccaa gggcgacttc cttgtcggac aactcaactt cacaggccct tgcaagggcg 300
acgtgaccat ccaggtggat ggcaatctgc tggcgaccac ggacctaacg cagtacaagg 360
aacatggtaa ttggatcgag attctacgcg tggataacct ggtcatcacc ggcaaggg 418

<210> 41366
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-A3

<400> 41366
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ggctgacagc caatcctgta gccgacctct ctgctgcctt tggcactaag gctctcgag 120
ttggtgcaga aatctcattt gattctgcca ctgggaactt caccaaatac aatgctggat 180
tgatgttcac tcatgaagac cttatcgcat cccttaatat gaacaacaag ggagacaacc 240

ttactggagc ttactaccac aaggtgagcg aattgacaaa cacagctggt ggggcagagc 300
 ttaccacag tttctcgacc aatgaaaaca cctcacctt tggcgggcag cacactctgg 360
 acccactaac cgtcttgaag gcacgcatca acaactcgtg caaagccagc gccctgatcc 420
 agcatgag 428

<210> 41367
 <211> 377
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-023-Q1-K1-A4

<400> 41367

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 gacggtttcg accttgggat gaacatgctg ttgggaggag acaaggaaga tgatggcggg 180
 tcaagcaagt cgcattggcaa gagcggaaac cgaaagaagc acctgaagaa caacaagaag 240
 aggaagaggc attagccctg gactcacact cctgtatcac ttcaacatac ttgagtgtgt 300
 gacatgtcag ttattttaca gatatgttag ttntaccata gtattgttcg atgtgaccc 360
 agcatgcccg tgaatgc 377

<210> 41368
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-A7

<400> 41368

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 cttgtccatg gttcgcagca acgataccaa caccgcatt atttaattgg tagcctctc 180
 tagctacgca cgcattttta gtctctaca cgcccttggg ttgtgcgtgg ctctgttaat 240
 catctctcat ccttcgtctg ccatttctcc cctgagattt ttgttccttg ttggtaccat 300

gcattttggc aaataatatt gtgattccac tccccaaatt aaagtttggc tgtcgtatgg 360
 gttgtaaacc cagatcaata tatatatgtg cgtgattgaa ctgctccaaa aaaaaaaatt 420
 taa 423

<210> 41369
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-023-Q1-K1-A8
 <400> 41369

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 gctgccaagt cattatccac acctgaaaga gatgctgttg acaatgagtg caataaagct 120
 gagcagtggc taagggaggg gtcccaactt caagaatcct tgcccaagaa tgtggaccca 180
 gtactttggt cctgtgaaat caagagaaag gaagaagagc tggatacgtt ctgtcgaaac 240
 ataacaaggc acaagggctc tccagcaagg acagatggca gcaggggttc agattacatg 300
 cctacacctg atagagatta aatattttca cgatcacgag gtttctttac tgtacgggtca 360
 cacatgt 367

<210> 41370
 <211> 287
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-022-Q1-K1-H2
 <400> 41370

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 gaccggcaca gttcaaata cctgcaccac caacttcgag aagatctcca cctccactgg 120
 tgaagcccc gtcaccaccc tcaattgtaa gctctccacc actgccacca atgaccttcc 180
 caccttcacc agccgtccca tcaccacctn cacctgcacc atcatcacct ncaccgtcgg 240
 cacctgagga gttcatcttg ccaccaatca tggcgcagca gtatgcg 287

<210> 41371
 <211> 342

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-023-Q1-K1-A9

 <400> 41371

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 tcctcgccgt ggcctcaccg gctgctctgg ccgccttcga tgtgatagag atgctggccg 120
 acaagcccac gtactccacg ttcctgaagc tcctgcagga caccaaggte gcgggcgagg 180
 cgaatcagct ccggtcggcg acgctactgg tcgtccccga caaacttgcc aagcctctgg 240
 cgtcgctgcc cgccgataag gtgcggccgg cggcggagaa ccacgtcctt ctcagttact 300
 tcgaccccat caagctggac gagatgaaga cagcaccgt ca 342

<210> 41372
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-023-Q1-K1-B1

 <400> 41372

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 cgagaggctc ggcgactacc tcgtagagca aggctgtga atggattcat ttaacctggc 120
 tcgcttgtcc atggttcgca tctacgattc caacaccgc attatttaat tggtagcctc 180
 ctctagctac tcacgcattt ttagtctcct acacgccctt tgattgtgcg tggctctgct 240
 aatcatctct catccttcgt ctgccatttc tccctgaga ttctcgttcc taggtggtac 300
 catgcattct ggcaaataat cttgtgattc cactcccaca ttaacagttt ggcgtcgtat 360
 ggtttgtaaa ccagaacaa tatatatatg aggtgtgatt gaactgct 408

<210> 41373
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-022-Q1-K1-F11

 <400> 41373

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cacctcctat caccgaattc tgttttatgg caagctccat cagcccaggc acgaagggtgt 120
 tctgagggct ttcattgacg aacgggacac cctcgtggac acaggctatc gcatacaagg 180
 tggatggcca gatctctgct tcgttcttgt ccaacgaagc caggagctcg tccatggtgt 240
 ccttaagccc tgcaaccacg ttgctgtacc tttcggagtt cgtcgtacac atgacgacta 300
 ccttggtcac cttgtttttt tccttgaact ccttgatgtc cttctttgac tgggt 355

<210> 41374

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F12

<400> 41374

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 ccgttcattg tcttcgcc 78

<210> 41375

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F3

<400> 41375

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 ccgacggcgc catgccgac actccgggtc cctactctgg cgtcagcacc ctcgcccttg 120
 tagcgagggc atcgggtctt ggcttcggtg tcgtctacgg gagcatcaag ctctcaatcc 180
 tcaaggcaac atagcctaga aaggcagaag cgcattgctca tcactaagga cgacagggtc 240
 gctacatgtc aatttctatg gaaggatg 268

<210> 41376

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F4

<400> 41376

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 caaatccatc aaaacttggc tgatgcagat ttttgaggaa agtgataata ctgacattga 120
 aggtgttgac tccagcaatg catgttatgg tgggacagca gccctactga attgtgtgaa 180
 ttgggtcgaa agtaactcct gggatggcgc ttatggtcct gtcgtttgca cggacagcgc 240
 ggtttatgcg gaaagaccag ctcggtcaac aggaggtgct gctgctatag caatgctcat 300
 tggctctaata gctccgattt ccttcgagag caaatataga gcttctcata tggctcatgt 360
 ttatgatttc tacaaacctg atctt 385

<210> 41377

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F5

<400> 41377

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 caccggcgag ttctgtgccg tggaccccggt cgcgggctcc ttctctgtaa acatcggcga 120
 cgtcggcacg gcgtggagca acgggaggct gcacaacgtg aagcaccggg tgcgggtgct 180
 cgcacccgtg ccgcgcattt ccatcgccat gttctgtctc gcaccaagg acgacagcgt 240
 gagcgcaccg gcggcggttcg tggacgcgga ccaccgcgc aggtacaagg tgttcaacta 300
 caacgactat cggaggctca gact 324

<210> 41378

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F6

<400> 41378

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 ggcgctgctg ggagcaacag cgcccaggcc aagggggccg tcaccaccac cgatgttgca 120
 cagaagattg ttaagcaggt tgagtatcag ttcagtgaca tcaacctggt ggcaaacgag 180
 ttcttgctca agattatgaa caaggacaca gaaggctatg ttccgttgct agtcattgca 240

tcctggaaga agatcaagtc t

261

<210> 41379

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-022-Q1-K1-F8

<400> 41379

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agatccagat cgtttcccca gatccagatc gcaggcgtga agggcaactg ttaccagatt 120

atgatccgtt ttcgagcttc gaggaatcga cgatcaagct tcggtgacca agtgacctgg 180

ttcttcgagt tctgcaaggt tgaagaccct gagcatctat ttggtgaaga aattgctgtt 240

ttcacgtggg aacatgggtg gtaaagatca tcctgtgcct acaatttcca aatcagagtt 300

cactggtatt tgtgacttcc catcagagat aacattgata gcanatgaaa atgaaaaccg 360

acttgatata ttggaagct 379

<210> 41380

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F9

<400> 41380

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gagctgaacc cctgaagaaa ccatcacttc cacagctcgt tggtgagcct acggaagcaa 120

ggtcaaattc gtttggtggg acccatgaat atcttgcccc agagatcatt cgaggagatg 180

gccatggcag ctcggttgat tgggtggactc ttggaatctt cctttacgaa ttactctatg 240

gcaagacacc attcagggga ccggataatg acgaaacact ctcaaagtgt atctcacagg 300

gcttgaagtt ccctgacagt ccagcattaa gcttccacgc tcgagatctg atcagagggc 360

tgcttgtgaa agaaccggag taccggcttg gctcgtcgag 400

<210> 41381

<211> 140
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-G1

<400> 41381

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gttggcatcc acatgggcga atcatccggg atcaccataa ccaacaccgg cattgcccgtt 120
gccgacaact gaatctccat 140

<210> 41382
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-G11

<400> 41382

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atgaagaaag tggcatcacc gggagccgtt ctcttcgtgc tagccctgac gctagtttgt 120
gccccgctga tagcagagggc aaagaagaag agagtcgccg ccgccgccgc cgaggagaag 180
aaggtgcagg acaacttctg ctgcagcgtg tgcgagggca ggaaggggat ggacctggtg 240
gtgtgcaaag agtcctgcga cctctcacag cgcttcaacc tgggtgctgta cggccggatc 300
cagtgaagg gctagtgcac cgagcagaat ggcattaccg cgccgcagat gaaggtgttc 360
caagaggcgt gcgacaagga c 381

<210> 41383
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-022-Q1-K1-G12

<400> 41383

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cttgcctcgc cacccttccc actgccagcg gcggctgaag gcggcgcggt atcagcttgg 180

tgattttgtga gcgatggcgc cgccgggggc gcggcggtgg gcttacgtgc gcgtgatggc 240
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 caaggcgaag atggaggaga ggctgcngaa gtaccaggcg catatgctcg gcaaagccaa 360
 agagtcgcag catttgcagg acg 383

<210> 41384
 <211> 265
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-G2

<400> 41384

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 atggcttact ttgatgccac agagaatgat ttcaagtatg acattttggg ctctggtcag 180
 ggtttggatt atcacactcg cacacatgcc gtaaaaacttt gcccaaaaga gtcacaggga 240
 acacatgttc acattcaagg ggatc 265

<210> 41385
 <211> 147
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-G6

<400> 41385

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 tggattcatg ttcttgcagt tggccacgcc agtttttctt tttatatgtg gtggtgcttt 120
 ggtggacttg gaaaagacta tttttga 147

<210> 41386
 <211> 177
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-G8

<400> 41386

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 ggaacaagta tgggtgtgctg ctctgtgtca ccggcgctcag gcacttcaag cattagccgt 120
 catgccccat ggctgggtcat cttagcttat ggagttacgg tgaaaaaaaa acaagct 177

<210> 41387
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F10

<400> 41387

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 acggcggtgg acgatggcga gccgcctcag cagtgcgcga ccccggtgag cgtggaggag 120
 gcgtgcccg cgcggtccga tacgcacgcc ggctggcct acgaccactg catggcgctc 180
 ctgggcgcgg acccgcgag catggaggcc ggctacaaga acatgcacgg gctggcggtg 240
 ctggccacca tgatggccat cgaccacgcc gtcagcaccg agtccaagat cgtcgacctc 300
 ctccgcgacg cgctggacaa 320

<210> 41388
 <211> 246
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H1

<400> 41388

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 gcggtgcccc ggaccggccc cggttgcctg gggtcgccg cggtcaggc tctgtcgagc 120
 tcactagccg gggttcaagg cgcgccgaag cgactggcg catcgaagcc gtcgtggatc 180
 gttcgactg agtcaaactg gaggaggag agagcaaac gacctgatcc tccttgacc 240
 atctgc 246

<210> 41389
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H11

<400> 41389

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cgagcgaagt aaacatgtct gaccgggcaa agatgtcgtg gcaggcgtac gtggacgagc 120
acctgatgtg cgagatcgag ggccaccacc tcgcggcggc ggccatcgtc ggccacgacg 180
gtgccgcctg ggcgagagc acggcggtcc ccgagttcaa gaccgaggac atggccaaca 240
tcatgaatga ctctgacgag ccagggcacc tcgcgcgcgac aggcctgttc ctccgacctt 300
ccaagtacat ggtcatccaa ggcgagcctg gtgccgtcat ccgtggcaag aagggatcag 360
gaggcatca 369

<210> 41390

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H12

<400> 41390

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agatggcggc gtcggatgtt gactaccgtt ctttctccgg gggcctcgcc tgggcaagga 120
acgaccactc cctccacaac gccttcagca cctacgggga ggtcctcgag tccaaaatca 180
tcctcgatcg ggagacgcat aggtccc 207

<210> 41391

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-D11

<400> 41391

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acgtgaaggg cctctacgtg gccggcgagg tcgcgtgcac ggggctgcac ggtgccaaacc 180
ggctagcaag caactcgtg ctggaagcgc tggtgttcgc caggagggcg gtgcagccgt 240

ccatcgacct catggtggat gccgacggag atgccagacc gtcgctggcg gcgaggtggg 300
 cacggccgac gctgccgagg tcggtgctgg gcgacagcgt gctgtcggac atcgtggggc 360
 ggacgaggca tgccaagatg gagctgcaat cagtgatgtg ggagtatgtc ggcatcgtgc 420
 gctcgacggg gc 432

<210> 41392
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-D12

<400> 41392

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 ctcaagaagg ggctcaattg tttcacttcc cggtggtggc gatgttcttg agggtagtga 180
 gtttgtacat gctgctgctt tagtaagtca gtcagcaactt ttctcaaagg gtcttgctga 240
 accacgcatt tcagatgctg ccattggttca cccatctgag gtagctgcca aagggtcacg 300
 ttggttaagat ttgtttgaac ctggagttag gcgtgccctg ttagtctgtg ttggaattca 360
 aatcct 366

<210> 41393
 <211> 376
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-022-Q1-K1-D4

<400> 41393

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 aggctcagcg gcgccgccca gcagcagccg gaggatgaga gggagaggaa ggagggcggg 180
 agtgggtgcg gcttcggat gccgctgcac taccgcgct acaagaaggc ggactacgag 240
 gccatgcccg agtggcgcgt cgactgcctg ctccgcgagt acggcctncc cgccgacggc 300

gacctcgaca gcaagcgccg cttcggcacg ggcgcctttc tctgggcccga ccagtactga 360
tctgatacaa ttcaac 376

<210> 41394
<211> 95
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-D6

<400> 41394

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gactgggttcg tgggtgctgt ctagcgggtcc ttttt 95

<210> 41395
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-D8

<400> 41395

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tgaggcagat tgagaagaca attcagtatc ttattggctc tggaatggat cctaggactg 120
agaataatcc ttatcttggg ttcattctaca cctccttcca agagcggggc accttcatct 180
cacacgggaa cactgctcgt cagcgaagc actttggcga cttaaagctt gcacaaatct 240
gcggcatcat cgcctcggat gagaagcgac atgaaactgc gtacaccaag atcgtggaga 300
aagctgtttg agatcgaccc tgatggtacc gtggctcgtc tggctgacat gatgaggaag 360
gaagatctca atgcctggcc aacttgatgt tgacgggcag gacgaacagc tgttcgagca 420
ct 422

<210> 41396
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-022-Q1-K1-D9

<400> 41396

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 agccccggccg gcggttcacg tegtacccgc cggcgagggc gcgcggcgccg tgcaggtcgg 120
 cccccggcggc ggcggcgccg caggccacgg acgatccccg cgccgctgtg tectggccag 180
 aactagtcgt gccgcggcac gccgacttcg acgactggat ggagaagcac ccgtcggcat 240
 tggccgcggt cgagtcgggt ctggccgccg ccaaaggcaa gaagatcgtc atgttctctg 300
 actacgacgg caccctgtcg ccgatcgtca gggacccccg cagcgccgtc atgtccgagg 360
 agatgcggga cgcggtgaga ggcgtggccg agcacttncc gactgcgata gtgagcgggg 420

<210> 41397
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E1

<400> 41397

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 tgctctctgg tctctttctg catcgtgcat ggtgagaagg aagagtcaaa gggcatcgat 120
 gcgaaagcgt ccgggcctgg tgggtccttc gacatcacca agttgggcgc ctccggcaat 180
 ggcaagacag acagcacgaa ggctgtgcag gaggcattgg catcggcgtg cggcggcact 240
 gggaagcaga caatcctcat acccaagggt gacttccttg tcggacaact caacttcac 299

<210> 41398
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E10

<400> 41398

tgggcatcgg cgtgcggcgg cactgggaag cagacaatcc tcatacccaa gggtagcttc 60
 cttgtcggac aactcaactt cacaggccct tgcaaggcgc acgtgaccat ccaggtggat 120
 ggcaatctgc tggcgaccac ggacctaagc cagtacaagg accatggtaa ttggatcgag 180
 attctacgtg tggataacct ggtcatcacc ggcaaggga acccttgacgg gcatggccca 240
 gccgtgtgga gcaagaactc ctgcaccaag aagtacgact gcaagatcct tcccaactcg 300

ctggtgatgg acttcgtgaa caacggggag gtgtccgggg tcacgctgtt caactccaag 360
 ttctttcaca tgaacatgta ccggtgcaag gacatgctga tc 402

<210> 41399
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E11

<400> 41399

ctagatcgtt gtgggttcca gaagaaccat caaatgcgga tgacataaga ggtgcttgca 60
 tcgaggagtg caccaaagaa aataaggctc ctggcgacaa gaagacatgc gaagtgttgt 120
 gcaccaagct cacaaaaaag cctagcgaag aaggcaaaca tgattgatga agtagcactc 180
 cgataatata taccctagtg gatgagtggc catctttgta gccatgtctg ccacacgatg 240
 gccttgatta tattggetta ttgttttgtt tttggtttcc actagtatcc taattccttg 300
 ttcatgtaac ctaatgtcac tcaaagcatt ttatatgctt cacttaatta aataaatata 360
 aaggcaaaag catgttctgt ttt 383

<210> 41400
 <211> 222
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E12

<400> 41400

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 ccgtccgca ttcatgacct gcctccaccg gatcaacggg gccgaggccg aggccgcggt 120
 gccgccgaac cagaagcccc ccgcgcaccg cgactccttc ctgcgcgcgc gtcccagcgc 180
 catgcccggt ccggcggcgg cgcataacgg caggagcagg cc 222

<210> 41401
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E2

<400> 41401
 gcggggcggcg ggcgcctacg ggctcatcag cgtccacagc cgtgacctga tcccgggtccc 60
 cttcgacacg ccggccgacg acttcccgggt cctcgtcggc gactgggtaca ccaaggacca 120
 caccgtcctg gccagaacc tggacgccg caaggggata gggcggcccg cggggctcgt 180
 gatcaacggc aggaccgaga aggacccttc gaaccgcgcc atgtccaacg tgaaggccgg 240
 caggacgtac ggtttcggcg ttgcaacgt ggcataaagg cgtttcttcaa cattcgcat 300
 cagaaccaca ttatgaagct tgtggagatg gaaggctttc acaccatgcg caacgactac 360
 gactcgctgg accttcaca 379

<210> 41402
 <211> 59
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E3

<400> 41402
 ttaaattcttc ctcgcttggg atctaagcca acaactgcag aagtcagcc cttaaacct 59

<210> 41403
 <211> 260
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E4

<400> 41403
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 aagtttagac accttcaggt tgtagaaaat gggtaagggt ttggcgtggt gggcctttcc 120
 aaatggcctt ttggtgccat ttccagactt ggaaaggccg cagaaccaga aggtgcgctt 180
 gccgcttggt gtaaaagggg ttgaccaaca gttaggtggc aacttcttag ttccacacat 240
 tctcttgaga ctattagaga 260

<210> 41404
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E5

<400> 41404

cgagagttct gactagccac atccagtcaa gcagtaaagg cgcaccatgg aggcggcgggc 60
ggagaataag gagggcgagc aggaggagca gcagctaccg cacgcgaga aggataacgc 120
gcccgtcgcc gccgaggaag acgaagcgga ttcggaggag accgagcgcc gcaaccgcga 180
cctcaagtcc ggcttccacc cgcttaggca caaactcgtg ctctggtaca ctgcgccgac 240
gcctggagcg aggtcgcagt cgtacgagga catcatcgag aagatca 287

<210> 41405

<211> 328

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-022-Q1-K1-E6

<400> 41405

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gtgctcgcca cggcgatgct agctacacta ttcgcggttg gtttgtgcac cccccgctc 120
accttccagg tcggtaaggg atccaagcct ggccacctga tcttcacccc gaacgttgcc 180
accatatccg acgtggagat caaagagcat ggtggcgatg acttctcctt tacgctgaag 240
gagggcccga ccggcacctg gacactcgac accaaggccc cgctcaagta cccnctttgc 300
atccgctttg ctgtcaagtc tgggtggct 328

<210> 41406

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-D10

<400> 41406

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atcacaaatt cattggagcg ataccaggaa attgaccgga ctttctctgg gacacgtgaa 120
tacaagcttt tagctgatct tgctgcatct atggatgaag gggatgttgc caaattcact 180

gatgcaatca aagaatttga tagcatgaca cgtctggatc cttggaaaac caccctgctg 240
 ctcagggcga agaacgagct gaagaaaaag gaggacgatg aggacgacct tacataagta 300
 ttgtagtaaa aagaaatggt acgatatggt ttggtttgtg cctccattgc attggaggca 360
 tcgtgttcct taaaaacgag catgatgaaa ttaatcgctg gtctggttgt acagaacgtc 420
 aatttgggtt cta 433

<210> 41407
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-E9

<400> 41407

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 actgctggaa agaaggcatt agaaaatggt ggactcaccg aagaactaag gaatgagttg 120
 gacaaaacca ggtgtgggggt tcttattggt tctgcaatgg gtggcatgaa ggtttttaat 180
 gatgcaattg aagcactgag ggtctcttac aagaaaatga acccattttg tgttcctttt 240
 gcaactacga atatgggctc tgcgatcctt gcaatggatc tgggatggat gggaccaaac 300
 tattctatct tcacagcttg tgctaccagt aacttctgta tccttaatgc agcaaaccac 360
 atcagaagag gcgaagctga cgttatgctc tgcggtgggt ctgatgcacc 410

<210> 41408
 <211> 253
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-F1

<400> 41408

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 cgggcgcggg cgagttcatt cccgtggacc cgtctcggg ctccttcctc gtaaaccatcg 120
 gcgacgtcag cacggcggtg agcaacggga ggctgcacaa cgtgaagcac cgggtgcggg 180
 gcgtcgcacc cgtgccgtgc atcttcatct gcatgttcct gctcttacc aatgactaca 240
 gcgtgagcgc acc 253

<210> 41409
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B11

<400> 41409

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attcgcggcc ctcttcgtgg tagcccttgc tctagtggcg gccaccagcc cacaggtagc 120
ggtaggcgaaa aataaaagag cgggtgaacag cgtgctggac gacttggcga agaacatcca 180
ggacaacatt tgctcgacgc tgttcgaggg caataaaggg acggacctgg tcgtgtgca 239

<210> 41410
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B3

<400> 41410

gggaaacatg ttgtttttgg tagagtgatg aaaggaatgg gggtagttcg ctctattgag 60
catgtttctg tcggagaagc tgactgcccc actcttgaag ttaaaattgt tgattgtggg 120
gagcttcctg aaggtgctga tgatggagtt gtaaaactttt tcaaagatgg tgatacgtac 180
ccagattggc ccaatgatct tgaagagaag cctgctgagg ttcatggtg gatggatgct 240
gtggagtctg ctaaagctta tgggaatgac aatttcaaga aacaggacta caaagcagct 300
ctcagaaagt acaggaaagc tctgcgctac ttggatcttt gctgggagaa agaagagata 360
gatgaagatt ag 372

<210> 41411
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B4

<400> 41411

atcacgacaa gatggcgtgc acaaacaatg cgatgagagc cttgttcctc ctggtcctct 60

tctgcatcgt gcatggtgag aaggaagagt caaagggcat cgatgcgaaa gcgtccgggc 120
 ctggtgggtc cttcgacatc accaagttgg gcgccttcgg caatggcaag acagacagca 180
 cgaaggctgt gcaggaggca tgggcatcgg cgtgcggcgg cactggg 227

<210> 41412
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B5

<400> 41412

cccacgcgtc cgggtgaagga ccccatcccg agggacgtgt gggagaagat ctacacctgg 60
 ctgcgcaagc ccggggcccg tgtcatgata atggaccctt acggcgccag gatcagctcc 120
 atcccgacag atgcgacgcc gtttccgcac cggcagggcg tgctgttcaa catccagtac 180
 gtcagctact ggttcggcga gggcgacggt gctgcgccga cgcagtggag caaggacatg 240
 tacgcgttca tggagcctta cgtcagcaag aaccctagtc aggcgtacgc caactacatg 300
 gacctggacc ttggcggtt 318

<210> 41413
 <211> 178
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B6

<400> 41413

ctccaaaatg ctttccaaga atttgggcag gtcaaaaacc tgcatttgaa tttggaccgt 60
 cgtaccggat ttgtcaaggg gtacgctttg attgaatatg agaagtttga agaagctcag 120
 gctgcaataa aagaactgga tggagctgag ctttatgaac ataaaatgag tgttgatt 178

<210> 41414
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B7

<400> 41414

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 ggtttatgtc ggagaagctg gctgccccac tcttgaagtt aaaaatgttc attgtgggga 120
 gctttctgaa ggtgctgatg atggactttg aaactttttc atagatgggtg atacgtaccc 180
 agattggccc aatgaacttg gagagaagcc tgctgaggat tcatgggtga tggatgctga 240
 agactctgct aaagcatatt ggaatga 267

<210> 41415
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B9

<400> 41415

aagacgaggt agaggagggg gcgagcgaca taggcagtgg aggggcgcgg tgaggaggcc 60
 ggcggcgcgc gcgcgcttgc ggcgccggcg gcctggcgat gggggaggtg gccgcgctgc 120
 gccagctcgt cggccaggtc caggagctct gggacctcta cggcgccaac ggcaacccccg 180
 tccccagggtg gtatttacct gacttcgaac atggttcaat caaggatgat tattgtgggg 240
 gaagctcagg atacaactcg gaattactga agatcatgga aactaaccaa tctccccctt 300
 gcaagcgacc gcggagagat cgaaaccgtg aaaaggcacc ctctcaaac aaaattgaag 360
 tcatggaaca agagatatgg agagatttcc ctgaagatct tttcgaaact gtcatagca 419

<210> 41416
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C1

<400> 41416

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 tcgctactcc ggcgagggag acgtcacacg ggtgcacgtc cgcgacatga ccttcacggg 120
 caccatgaac ggcgttcgca tcaagacatg ggagaactcc ccttccaaga agcaacgccg 180
 cgcacatggc cttcgagaac atgggtcatga gggacttgaa aaaccccata ataatcgatc 240
 agaagtactg cccctactac aactgcgagc acaagtacgt gtccgggggtg actctcaatg 300

acattcactt caagaacatc aagggcacgg cgacgacgcc ggtggcggtg ttgctccggt 360
gcggtgtgcc gtgcaagggg ctggtgctgc aagacgtgga ccctaggtgc ccgtgct 417

<210> 41417
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C10

<400> 41417

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tttaccattg taatgctatt catccaggct agacgtctaa aggtgggaga caagccactt 120
tttacagttt caatatttat gcatgctgct cgcaataatg ttcttctttc agtacctgct 180
cttctctatg ctatcaacaa ctatttgaag ttcataatgc agttatattt taatcctgct 240
agcgtgaaaa tgctgagtaa tctcaaagtt ctggtaatcg cagtgccttct taaaatgata 300
atgagga 307

<210> 41418
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C11

<400> 41418

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agattcggtt gcattcagta atgcctttgc ctaaatacaga cctgggggtca taactcttta 120
gtagagaacc aagaagatgc atgcatctag ggcaaggctt ttcaaggagt acaaggaggt 180
acagcgagag aatgtagctt acccttggtt tcaaataata tgtgatgatt ctaacatata 240
taagtggact gctcttatca aagggccttt 270

<210> 41419
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-022-Q1-K1-C12

<400> 41419

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cggcctcctc ccgcaggcgc tgggtaaggg taggggaggc aggggacacg gtggcgccgt 120
caacccgcag gtcgccggca tctgctctcg caccctgttc ccggaggtgt gcacgtccac 180
cgccggggcg caccggtcca agtaccgggt catcgacaac ctggccgtgc tgaacatgca 240
ggtggacgcg ttgcgaagc gcaccgcgca tgcgcgcaag cactcgcga ggtcggcccg 300
caccatcccg ccgcagcaga cgcaggcgct cactttctgc gacacatgt acatgaacac 360
gcatgacacc atcggcgcgg tgcacgggc catcacgttc aaggacaccg gcaccgncaa 420
gatcatgct 429

<210> 41420

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C2

<400> 41420

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agagagcacc ttcatggagg aagacgtggc caattacttc ggtttgtatg gttctgtgcg 120
cgacgtgagg atcccatggc aggagaaacg gatgtttggc ttcttaagct tcaacattcc 180
gaaaacgtta acaacattct tacaatacgc attccacata ttattggcga aatcaagggt 240
cctggtgaaa cgttacatag ag 262

<210> 41421

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C6

<400> 41421

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catcgctgaa aagcagcgat tgagagagat agagctggag gagaaggcaa aggcaacaag 120
ggagaagctc ttaaagggat ccgaggctgt gcgcgctcca gattctgcac ctgttgacaa 180

gccacctcga gagtcagcag cagcgctgc agctgctgcg gctgctctg ctctgctcc 240
tagtaaatat a 251

<210> 41422
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C7

<400> 41422

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gaaaaaaaaa aaaaaaaaaa aggagtagat aatagaattg gaaatgttgg taaaaagtaa 120
caagggacat tgatcttggg catatattag gctgtcttgg gctattg 167

<210> 41423
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C8

<400> 41423

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agggcggaag aggatgagcg cgtccagggt cataaagtgc gtcacggtcg gggacggcgc 120
cgtcggcaag acctgcatgc tcctctccta cacctccaac accttcccca ccgactatgt 180
tccgacagtg ttgataact tcagtgccaa cggtgtggtt gatggtaaca ctgtcaacct 240
cggcctctgg gacactgcag gtcaagagga ttacaacaga ctgagaccac tgagctatcg 300
tggagctgat gttttc 316

<210> 41424
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C9

<400> 41424

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 ttcaagggtct gatgtcctag ttgtggagtc caacaaggag ctcaagctgg gggcaacaga 180
 ggcggttata ctgtcagcgt tagagagttt ctttgacgtt gttttgaact atccaaagat 240
 caatatgagg ttgtgtgacg tgatggagct cttgtcctgg aagcaacca agtgcccca 300
 attgtacata tacagctccg tcgacagggt gatcccagcg aaatcagtgg aggcattcat 360
 cga 363

<210> 41425
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-D1

<400> 41425

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 gccaaagaag agacggatgc gctgccaag gcaccagctg ctgcagccac cgaggggcct 180
 gctgcgggag cgcccatgac atggccggat ggcgggcctg agttcgtcaa gatggtcac 240
 aagaaccct 250

<210> 41426
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B10

<400> 41426

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 ctgagatcg atactgccga gtcaccgcc gtgtccacc acttggcggt ctgccgccag 180
 gctaccacga caaccacgt gatggcaccg caacagcaag gcggtggcat ggctgacctc 240
 gacgtcacgt cctccaacca gccgttctt cccaacgagc agcaagaagt cgttgacgca 300
 ctctacgtga atcacgaagc tcacaccgcc atccttcaaa ccgacgaggt cgtccaccgc 360

cacggtggag gccacagccc caccgatgat catcacggtg agcagcaaca gcagcagctc 420
 ttcgactact tttatta 437

<210> 41427
 <211> 441
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-021-Q1-K1-H5

<400> 41427

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 catcgccgtg ctcaacgacg gcaccatcat gaccatctcc aaggaccggg tgaagccgtc 120
 cccggtgccc gacgcctggc gcctccagga gatctttgcc accggcgctcg tcctcggcac 180
 ctaccaagct ctcgccaccg tcctcttctt ctggggcgctc cgcgacaccg ccttcttcac 240
 gaatacgttc ggggtgcacc acatcgggga cagcacggag gagctgatgg cggccgtgta 300
 cctccaggtg agcatcatca gccaggcgct catcttcgtg acccgcgctc ggagctgggtt 360
 ctctgtggag cgccctggcc tgctgctggt ggccgtcttc ctggccgngc agctgggtggc 420
 gacgctgac gccgtgtacg c 441

<210> 41428
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-H9

<400> 41428

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 ctctccagtc tcttctggac gtacggccct gtggaggagt gcacgcccac ggattcataa 180
 gactctgagc cctacactga cgtcttcttc gtcaagttct cacaggtcaa caactccagg 240
 tttgcaaaga ggaagctcga cgagtctgtg tttctttgca aaccgctgca ggtgaactat 300
 tccctcaat tttataacct 320

<210> 41429
 <211> 253
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-022-Q1-K1-A1

<400> 41429

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 aaaaacacaa aaacacaatg cacatcaact gacagaagtg caataccctc tcatatgcag 120
 agtttcggaa tactgggctg gagagatcag aggcgctgaa aaatgatctg gaatggttca 180
 cgcaacaggg ccacacaatt ccaaaaccat cgggccctgg caccacatac gcttctctac 240
 tggaagatct gtc 253

<210> 41430
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A10

<400> 41430

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 tgaatatgga catgtgcttc tcattcctcg tgttctggac cgctgcctc agaggattga 180
 tccagagagc ttcttgcttg cactgcaaatt ggcagccgag ggaggtagcc catacttcag 240
 gcttggttac aatagcttgg gtgcgtttgc caccatcaat cacctccact ttcaggcgta 300
 ctacttgta gtgcctttcc ctgttgagaa ggcagctacc cacaagatcc cactctctga 360
 ggacacgaag aagaatgggg tgaccgtgtc caagctgata aattatcctg tgagaggcct 420
 ggtatttg 428

<210> 41431
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A11

<400> 41431

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tatggggttt tctaccaaac cctattcgga acaagataat agatgtgcaa gatctcttcg 180

tggaggtgca agcattttgc atcgcttctc cgccaataag ggaggcagtg gggttgttca 240

ggctcctgaa atctctagaa tgaagagcgc tgcaccatca gttgggcgct ggattctcag 300

aacagaaatt cccaaggtgt acatccatgg ctctgccttt tgcttccaag ctgctgaccc 360

tgcataggtc tggactctgt agggcgtgga ttttgctggt atattggtta 410

<210> 41432

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A3

<400> 41432

gggagctggc accagcacca gcaccggcac cagcggctct tcccgtgccg gatcagtgca 60

acgccgggga cggcgaccgc gggaggaagg cgggcgtcgc tgggtcccgc gtgtgcagcg 120

gggcgcggag acgggtggcc aagggcgccg gtggcccggc gagcaccaag ttccgcggcg 180

tgcggaggac gccgtggggc aagttcgcgg cggaga 216

<210> 41433

<211> 325

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-022-Q1-K1-A4

<400> 41433

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cggcgtcggc tcagatctct gcgtgcgggc tagcgatggc gtcgttctcg gaggtcccc 120

cagggaaacc gaaggcgggc gagaagatct tcaagaccaa gtgcgcgcag tgccacacag 180

tcgagaaggg cgccggccac aagcaaggtc caaacttgaa tggctctttt gggaggcagt 240

cggtaccac cacaggctac tcctattccg cgggaaacat aaacaaggct gtgatctgng 300
aggagaacac tctgtatgac tacct 325

<210> 41434
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A5

<400> 41434

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acatcaacta acagaagtgc aataccctct catatgcaga gtttcggaat actgggctgg 120
agagatcaga ggcgctgaaa aatgatctgg aatggttcag gcaacagggc cacacaattc 180
caaaaccatc ggcccctggc accacatacg cttctctact ggaagatctg tctgaggagg 240
acccccaggc ctttatctgc catttctata acatgtactt tgctcatact gctggaggcc 300
gaatgattgg caaaaagggt tccaagaaga ttctgaacaa caaag 345

<210> 41435
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A6

<400> 41435

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tgatgcgctc gtgaggctga gcggaattac tgcagagggc caagggtgtga aggttgaatc 120
ctcagcagtt ccttcagccc caactccaga tgttgctgaa gcacaggccc cagctgctga 180
ggaggaggac gatgatgatg ttgacctttt tgggtaggag accgaagatg agaagaaggc 240
tgctgaagag cgtgctgcag ctgccaaggc ttctggcaag aagaaagaat ctgggaagtc 300
atcagtttta cttgatgtga agccatggga cgatgagact gacatg 346

<210> 41436
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A7

<400> 41436

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tgatgttgtg attcttgcca caggttataa gagtaatgtt ctttattggt tgaaggagaa 120
tgaatTTTTT tcacagcaaa gtggatttcc aaacaaacca aatgaatgga aaggaaagga 180
tggactctat gctgctgggt tctcaaggcg tgggtctactt ggtgtgtcta tggatgccac 240
caaaattgcg gaggatattg cgcagtctta taataatata tataagctac aaagatcata 300
agaacaaatg atattttaact atttatcaat aatttagcta tcaccatttg agagttttgt 360
aaatatatgt actagtctat ttgcataaat tataagagat ggatatgcta gattacaaat 420
actaggetag cttatctatc aacgcac 447

<210> 41437

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A8

<400> 41437

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atcagcgtcg gcagcctggg gcgctacaag gacgagaagg acgtggaaga cgtgcagggtg 120
acgggggtgca cgatcgccgg caccacgaac ggctgcgca tcaagtcgta cgaggactcc 180
aagtcgtcgc tcaaggccag caagttcctg tacgagggca tcaccatgga caatgtctcc 240
taccceatca tcatcgacca gaagtactgc cccaacaaca tctgcgtc 288

<210> 41438

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-A9

<400> 41438

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acttggctaa catgcttggg tttggtgatc ttggcagtcc accattatct gctgctgaag 120

aatattcact tcattcacga taccttgcta aagcgaattc tatgaatctg tcagatgttg 180
 ctgaaatgaa aataatttac cgtggaggag ttgatagtga agggcgcca gttatgggtca 240
 ttgttggtgc tcactttctt ctctgctgct tggatctgga acgatttggt ctatatgtag 300
 taaaggaatt tgaatctctg attcagaagc cttacacaat tgtctatttc cactctgtgg 360
 catcattaca accacagcct gatttaggat tcatgaaacg gttacaacag atactaagtc 420
 ggaagcataa aaaaaatctt cataact 446

<210> 41439
 <211> 143
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-B1

<400> 41439
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 caccagagaa cgtgtctgtg tatactgtgt aaaggctcta aaggaaagag aagatgcaca 120
 tattcaaagc ctcgagcaa aaa 143

<210> 41440
 <211> 235
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-F9

<400> 41440
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 gggcccaaca tgaccgatcc gccggggcgc tgggcttggc ccatcaacca ggccaggtca 120
 ttctgggtgga acctgacagc cagcgtcgat cgccccaacc cgcattggctg ctaccactac 180
 aggcacatca acatcacccg caccatcgag gtcattgtca tccgaggaca catcg 235

<210> 41441
 <211> 410
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-021-Q1-K1-G1

<400> 41441

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ccctctctcc cgagtccega cgaccgggca acagccgccg tcgccgctca gcctccgctg 120
ggaccttcgc cgggtggcgag caccatcagg tgtacatgcg tacgcccatt cccttggtcg 180
cgcccccccc tgcaagtggg ttctgtgtgg tctgtgtgga tttggctgcc ggaagattga 240
ttgatgcggc cttcaggatc actgtagcct cgctgtgaga ttccaaggct gctcangtca 300
tgttggggga ccagtgcac atacaggcgt tagactcggg tagctcatca agctctgccc 360
ctgattcgac cctctccgga gagcttccag cangaactgt gtgattggga 410

<210> 41442

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-G10

<400> 41442

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agcgggtcca ggtgcgaccc gccgtgaacg ggccgctcta ctacctcacc tgcctcatga 120
acggtctggg gagcgactgt atcatcgggt ggcacatgct ggccgtgctc aagatggaca 180
cccacgccat ccgcggcttc tactatgggc atgttcatcg ggggcgcact a 231

<210> 41443

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-G2

<400> 41443

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catggttatg cttgcgaaag cactagagta tgcagatttt gacaactttg accgtgttcg 120
tgtecccaaa atccgatatg ctgggatgct tcagtatgat ggtgagttga agcttccaag 180
ccgttacctt gtttccccac cagagataga tagaacatct ggggagtact tggatgaagaa 240
tggcatccgc acctttgctt gcagtgcagc agttaaatct ggccatgtca catttttctg 300

gaacggtaac cgttcgggat actttgatgc aactaaggag gagtatgtag aagtacctag 360
 tgacagtggg attacattca atgttgacc caatatgaag gcgcttgaaa ttgctgagaa 420
 agccagggat gctctcctaa gtgga 445

<210> 41444
 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-021-Q1-K1-G3

<400> 41444

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 gccgccggcg ccggagccaa gcggaggcat cgtatcccc gtggcggtgg tggcctcgca 120
 tttctgcgcg ccctacgtgg tgcagctggc ggtgaaggag aagaaggtga gcctccggga 180
 aggcgacttc accatcaccg acaccaacgg cgccgtcgtg gtcacggtca agggtcctt 240
 gatcagcatg cacaaccgcc gccgcctact cgacgccgtc ggcaaccccc tcctctgcct 300
 gcgcgagaag gtaatcagca tgcacaacac gtgggaagcg tacagagggg acagcacgag 360
 atcgagcgac ctgctcttca ccgtcaagaa atcctncatc atgcagccgt tcaagaccga 420
 gatgctcatc tacctg 436

<210> 41445
 <211> 452
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-021-Q1-K1-G5

<400> 41445

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 taaagcccg tggcaaagtc ctaatcagcg actactgtaa gaatcctgga aaaccatcag 120
 aagaatttgc tgcgtacatt aagcagagag gctatgacct tcacgacgtg aaggcttatg 180
 gacagatgct gaaggatgct gggtttcata atgtcatcgc ggaagatcgc actgagcagt 240
 tcttgaatgt tctacagagg gagctaggtg aagttgaaaa gaacaaagac gctttcctgg 300

cagacttcac ccaggaggac tatgacgaca ttgtgaatgg ctggaacgcg aagctgaaac 360
 ggagctctgc cggcgagcag aggtgngngt tgttcattgc caccaagtga tttggcctgg 420
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<210> 41446

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-G6

<400> 41446

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 gcgaccgcgt gttctgcctc ttcgccggca agggcaggga ggaacccgac gcggaggagc 180
 acacaaggag cagtagggcg tggatgctcg tgctcgccag cagcagcttc accaccctca 240
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 ttttagccat gttcttgctc ccgcatagct cattaactcc cctctcaagt agatggggta 360
 acgtatgtac tcactatttc agaataaaga tgaacacagg ttccttgctc attgtaaaac 420
 aacctggaat aatcc 435

<210> 41447

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-021-Q1-K1-G7

<400> 41447

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 tacatgttag atctcaacaa cagtgcacag ctgctgaact tctcgggttg cggaataca 180
 ctaaactgca accatcctgt tgtcaaggag cttgtacttg acagtttaag acattggggtt 240
 aaggagtatc acatagatgg atttcgggtt gaccttgcca gtgttctttg tcgtggacca 300

gatggcagtc ctcttgatgc accttcactt attaaggaaa ttgccaaaga ctctgtattg 360
tctagatgta agatcattgc tgaaccttgg gactgtgggtg gcctttatct agtangggagg 420
ttccctaatt gggacagggtg ggctgaat 448

<210> 41448

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-G9

<400> 41448

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gaccttcgcc gtcattctat ccgtcctctt ctgtgcgcgg gctggcaccg tcgtcgacaa 180
cgacctcccc gactacgtca tccagggccg cgtctactgc gacacctgcc gcgccggggt 240
cgtgaccaat gtcaccgagt acatcgcggg cgccaaagtg aggtctggagt gcaagcac 298

<210> 41449

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-H1

<400> 41449

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tctcagaaaa caaaacaatc attttatcta ccaacatcat ctatctctct tttaaaacat 180
atctttaatc tttattatct ttctcttcta atc 213

<210> 41450

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-H10

<400> 41450

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tattctttac tgggaatcaa taactttcat cagacccact gttgctctaa tatgttttga 180
gacaatcggc ttattactaa atgattagtc acctccttct cccttcaagt catcttgcac 240
ggatgactgt agcatatctt tatggcttgc tgataatcac agcgggtgttg aacataagca 300
agcccgtgcc gtattttata cgcactgcat tgcaactgcac gatacat 347

<210> 41451
<211> 351
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-021-Q1-K1-H11

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gcgctagtgg cggccaccgc cccacaggta gcggaggcaa agaagaaaag agcggcggag 180
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ggcaagaagg ggacggacct ggtcgtgtgc aaggggtcct gcgcgctctt ccaacagtcc 300
aacctggtgc tgtacgggag gatccagtgc aagggaagt gcaccgagca g 351

<210> 41452
<211> 330
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-021-Q1-K1-H12

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agcggcgaag cggcggacgc gaagaagatc caggacgact tctgctcgac gctgtgcgag 240
ggcaagaagg ggacggacct ggtcgcgtgc aaagagtcct gcgcgctctt ccagcagtcc 300

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330

<210> 41453
<211> 180
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-H2

<400> 41453

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acatcagcaa gctgtgttgt aaaacatatc tttaatcggtt attatctttc tctttcgatc 180

<210> 41454
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-021-Q1-K1-H3

<400> 41454

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gagggtcgcc gagggcagat cccgcctcgc gcgcctcatc ctggtgcagg cgctgcacct 180
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ggccatcaca agctacgaaa tgcttgatgc ggcttc 455

<210> 41455
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E6

<400> 41455

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 attttcttga gtgcatgtga tgatgatgcc gagcctacac tgatttggct gagaaacgag 180
 atggcttagc tgggtggagtc gtctgaattg cttgctggat agccagtatg ttatgttgtt 240
 caaatgaaaa attagctctc tccctttggt ttgttcttaa tctaaatgca cacactctat 300
 tgtaatgtaa taagagacaa atgagtggcc aacttctgat tttgatgctt caaatttcat 360
 ccgcttcata gacctaatat gatggacact gatcttttta tatgcatgca acaaattaat 420
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<210> 41456

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E7

<400> 41456

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 ttcaatgaat tctctgtct actcgctac cccgaattca cttgatagcc cgccagacgc 180
 atctcgatgc ttctgtctcc tggttcttag ggctgtgga tgagaccgtg tccctgccgt 240
 ccaaaaatca gcaggccctc atgctcatag cgttcatgga tccaggaaaa ggagacgccg 300
 gtgatacttc aaccaccaga gagcgtcgga tggggaccac catcgtacgg gtccgtggg 360
 accgctgcta gctactagg gcagcaacga attgacaggt atgattgcgc atggccatca 420
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<210> 41457

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E8

<400> 41457

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gaccaaacac ctcaagatga cctcttctca aagaatacaa gcatcgccaa tctcttggca 120
 tccattagtg acaggaatat ctcaagtatct ctcacgaagt ctattcattc caccaccaac 180
 tcattttcct tgtttgctg ttttttactt ctcttctttt gctgaacccc ctcaagtaggc 240
 tctggtctct tctttggctc tttgccctga agaagatgtg caaggagggc gcatattggg 300
 ggactgttgc tggcgtctac gtgggctgtg tgtatggcgt ggagagggtc cgtgggcgca 360
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<210> 41458
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E9

<400> 41458

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 cacgttcctg aagctcctgc aggacaccaa ggctcggggc gaggcgaatc agtccggctc 180
 ggcgacgcta ctggctgtcc ccgacaaact tgccaagcct ctggcgtcgc tgcccgccga 240
 taagggtcgg ccggcggtgg agaaccacgt ccttctcagt tacttcgacc ccatcaagct 300
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 actc 364

<210> 41459
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-F10

<400> 41459

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 gtggccagtt ccacctgagc tccagcttct ctgaagggtg acgggcccgt aacatctgcc 180

tttctttctc atcttatgaa aggagatttg ccacgaggaa ctacatgacc catagccttt 240
 ggggcccttc aatgtctggt agcgggtggca ttaatgtttc agtcatgccg actccgcttt 300
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<210> 41460
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-F11

<400> 41460

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 ttccgctgga acctgacggc cagcgccggc cgccccaacc cgcagggtc ctaccactac 180
 ggccagatca acatcacccg caccatcaag gtcattggtc cccgcccga catcgacggc 240
 aagctccgct acggcttcaa cggcatctcc cacagggaca ccgagacccc cctcaagctc 300
 gccgagtact ttaacgtcac cgacgggggtg ttcagctaca accagatggg cgacgtgccc 360
 ccc 363

<210> 41461
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-F12

<400> 41461

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 gagcgcagga ggaagtctgt ccgtggttgc atcgtgagcc aagacctatc tgttatcaac 180
 ttggtgattg tgaagaaggg tgagaatgat ctgcctggtc tgactgacac tgagaagcca 240
 aggatgaggg gtcccaagag ggctccaag atcagaaagc tgttcaacct taacaaggat 300
 gatgatgtac gcaagtacgt gaacacatac cgcatgacat tcactaccaa gaacgggaag 360
 aaggtcagca aggcacctaa gatccaacgg cttgtgacac cct 403

<210> 41462
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-021-Q1-K1-F2

 <400> 41462

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tacggtcgct gataagcagc cgcattccagg gatggagatg aagaagatcg cctgcgccgt  120
cctcatcgcc gcctcggcca ccgtggcgct ggccgcggag gcgccggctc cgtctccac   180
cagcggctcc tccgggtcg caccgccat cgtcggggcc gccgtggcct cttcttcgc   240
gtactacatt cactgagccg ccggacgagg agccggagcc ggagggaaga gaccaaggtg  300
gggggagaga cttggctgct ctgcgctgct ctgctgcttc cgcgcattcc cgatgcgtgg  360
gcgtgctctg attgggcacg gcggtggcag tggcacacct tcgtcttctt tttgtttggt  420
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<210> 41463
 <211> 455
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-021-Q1-K1-F3

 <400> 41463

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ggcaagggta tccttgctgc tgatgagctc actggcacca ttggcaagcg cctttccagc  180
atcaatgtcg agaacgttga ggagaaccgc cgtgccctcc gtgagctcct attctgctgc  240
cctggtgctc tccagtacat cagcgggtgtg atcctcttcg aggagaccct gtaccagaag  300
accaaggatg gcaagccttt tgttgatgtc ctcaaggagg gaggcgtcct ccctggcatc  360
aaggttgaca agggcaccat tgacgttggt ggactgata aggagaccac cacccaaggc  420
catgacgacc ttggcaagcg ctgcgccaaag tacta                            455
  
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<210> 41464
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-F4

<400> 41464

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 ctggtggcgg cgacggcgtc ggtgcccacg gccaccgct acggctgcta cgacgactgc 180
 tacgagcggg gcgccaacgg caagaaggac gaccccgct gcaccaagat gtgcaaccag 240
 gcgtgcccga gcaccgacaa gggcgccgct gtcggcgcg cggttgatc gacccgggct 300
 tcatcgggcg gcgggctcag ctogatatca gcatcatata caatcgctgc tccgtcgctc 360
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 atatctttgt tgcaggtctt cgttctcata catcgatcca ctc 463

<210> 41465
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-F5

<400> 41465

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 gccacgtac tccacgttcc tgaagctcct gcaggacacc aaggctcggg gcgaggcgaa 180
 tcagctccgg tcggcgacgc tactggctgt ccccgacaaa cttgccaagc ctctggcgtc 240
 gctgcccgcc gataaggtgc ggccggcggg ggagaaccac gtccttctca gttacttcga 300
 ccccatcaag ctggacgaga tgaagacacg caccgtcatc cttcccacgc tgctctccgt 360
 caccgacaag aaactcggcg tctcaacta caccatggcc gacgacgggc agatgtactt 420
 cggcgtccc ggcgccccct 440

<210> 41466

<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-D11

<400> 41466

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gcagacgccc gtgaaccatt gtagctgtcc ctgtcgtcgt catcgtcgtc gtcaacgaat 180
ccgcacaagg aaaagatgga gaagaagccg accatcctca tgaacaggta cgagctcggg 240
cgcacgctcg ggcagggcac cttcgccaag ggggtacctg gtcgggacct cgcgttcggc 300
gagagcgtgg ccatcaaggt catcgacaag gagaaagtga tgcgcgtcgg catgatcgac 360
cagatcaagc gcgagat 377

<210> 41467
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-D12

<400> 41467

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ttgtttgtgc tcccgaactt gagtttgcaa tcaaattatg ataatggtat tgactctcat 180
atgaaagcat ggcataatga atttaatact gtgtatgact gtggac 226

<210> 41468
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-D2

<400> 41468

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tggttgtggc gttggtgttc ttggtgagcg gcgcatggtg cggctctccc aaagtcctcc 120

caggcaagaa catcacggcc acctatggca aggactggct ggacgctaaa gcgacatggc 180
 atggcaagcc gacaggtgcc ggtcccgcacg ataacgggtg ctgctgcggg tacaaggacg 240
 tgaacaagcc ccccttcaat agcatgggag catgcggcaa catccccatc ttcaaggatg 300
 gtctgggttg tgggtcctgc ttcgagatca agtgcgataa gcctgtggag tgctccggca 360
 agcccgtggt ggtgcacatc acggacatga actatgagcc tatcgcggcg taccacttcg 420
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<210> 41469
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-D3

<400> 41469

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 ccttctccgt cgtcgcgcgc tcgccactct agggctacta aggagtcata cacatgtcag 180
 aaactacagc agtcaacttt cagctttgat tccagctact tctcaatgct caaatctgac 240
 aagaagacgc tattacttac ctaatccatc tctgtaccaa gtttggagta ggatcatttg 300
 ctgagacagc ggagacaagt tcgaggctgt tgtgcccttc atgggtgaat ctgtaactga 360
 tggaactctt gctaacttct taaagaagcc tggagacaga gtcgaggccg atgaacccat 420
 agcgcagatt gaaactgata aggtcactat agatgtcgc 459

<210> 41470
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-D5

<400> 41470

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 gtggtacacg acaaccacgg caagttcacg gccgggcccgt ggaaaccgcg ccacgcaacc 180

ttctacggcg ggcgtgacgg gtccggcacc acggcgggcg cgtgcgggta caaggacacg 240
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 gcggcctgcg gagggtgcta cgaggtgcgg tgcgtggaca gccctagcgg gtgcaagccc 360
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 aagccaccgc gggagcactt cgacctcagc atg 453

<210> 41471
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-D9

<400> 41471

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 agggcaagaa ggggacggac ctggctgtgt gcaaggagtc ctgcgctctc tcccagcagt 300
 ccaacctggt gctgtacggc aggatccagt gcaagggcaa gtgcaccgag cagaagggca 360
 tcacggcgcc ggccatgaag gtctgccagg aggagtgcga caaggcgt 408

<210> 41472
 <211> 206
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E10

<400> 41472

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 tccaccttc ctaagctgct ccatgacacc aacgacttgg gcgcctccaa tcatgtccag 180
 acagacacgc ctctggctgt tcccga 206

<210> 41473

<211> 349
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-021-Q1-K1-E12
 <400> 41473

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 ggggctgctc atctgccacc tcgccaccac cgccttcgcc ggcaagaaca gaatccgcat 180
 cctcgacagc gtcgacgact cggccgggga caacaacagc tccgacgcct cggccgggga 240
 caacagcacc gactccgagt cggaaggccg cgtcgtctat tccgacatga agctggctga 300
 tgagacggga tctgcgccgg ctccggcacc ggcgcggggg ccgacgacc 349

<210> 41474
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-021-Q1-K1-E3
 <400> 41474

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 cctgggaggc cgctgtgcg cggcgctggc cggcgcgggc cagccgtgc gcgcgctcgt 180
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 caccgacgcc gaggccctcg ccgtggcctt cgacggctgc gacgtcgtgt tccacgtcgc 300
 cgcggccggt gagccgtggt tgcccagacc ctccgttttc ttcaaagtta atgtacgtgg 360
 acttgagaat gtgttgaagg ctgtcaagag aacaccaact gtgaagaaga taatctacac 420
 atcttctttc tttgcaattg gtccaactga tggttatg 458

<210> 41475
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-021-Q1-K1-E4

<400> 41475

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tgcttctcct gctcattgtg tccaccgata tggcacaggc aaggggaatgc gagaagtaca 180

gtgagcgaatt tgttggggca tgcattgatc cagacaactg cgccaatgtg tgccgcggtg 240

agggcttctt ggccggcagg tgcagcacct tccgccgccg ctgcatctgc actaggcagt 300

gctaaacaag atcgtctgat cgctcgccat gcatcgacaa cctattctta ataacgttca 360

ttatctcgtt cttatttatg acgaatgtca tgtatgttct ggtgactgtc atgtatattc 420

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<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-B6

<400> 41476

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cggcggcaag gtgcagccgc gcgggctgcc cgcggcgctg tccctgctgc tgctcctggt 180

gttggcagcg gggctgggcg gtggcgccga ggcgcacag acgtgcgcgg ggcagctgcg 240

cgggctggcc ccctgcttgc gctacagcgt gccgtccttg ccggggcagg ttccgtcggc 300

gcccggggccc gaggctgct cgcgctggg gggcgtgtcc agggactgcg cctgctgaac 360

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<210> 41477

<211> 451

<212> DNA

<213> Zea mays

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ccatatgtgg gtctcaactt ggctgtatat gagtccctca aagactggct actccagaca 120
aattcatttg gccttgcaaa tgacaacgag ctgcacgtag ttacaaggct tgggtgtgga 180
gctgtggcgg gaaccattgg ccagactgtt gcatacccg c ttgatgtcat caggagaaga 240
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ctccagtaca atggcatgat cgatgcattc aggaagactg ttcgtcatga aggagttggg 360
gctctgtaca aggggtcttgt gccgaactca gtcaagggtg tgccctcaat tgccattgca 420
tttgtgactt acgaggttgt gaaagatggt c 451

<210> 41478
<211> 70
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-B9

<400> 41478

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acgcggaggg 70

<210> 41479
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-C1

<400> 41479

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ggctgcagga accctgaaga gatcccgtgg gggttcgggtg gtgctgaaat atgtgttgag 360
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<210> 41480

<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-C11

<400> 41480

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cgcctacggc gctccgtctc ctgatgcccc atcttatggc gccagcgtac catcaccgac 180
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ggtcactcct atccatgggt cgaattaccg accgaaaagt ctggttcctc ggccaatttc 300
tcgttcccg tcagctaggg gaagcatttc tcggcccggt atcacatttt aaaaatatga 360
aagtcaattt tttttgttca aaacgaaact ttggaacagt gaatcgaaaa agggaagcct 420
gttgcttact atg 433

<210> 41481
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-C12

<400> 41481

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gtggacgagc acctgatgtg cgagatcgag ggccaccacc tcacgtcggc ggccatcgtc 180
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ctggg 305

<210> 41482
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-C3

<400> 41482

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gtgagactga cgatttgcac gaccatatta ttatattagg ctttggacgt gttgggcaga 180
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atcgggttgc agttgggctg gcacttgacc ttccgggtata ttttggggat gctggaagca 300
gagagggtact gcacaaagtt ggagctgaaa gagcttgtgc tgctgcaatt actttggata 360
cccctggtgc aaacta 376

<210> 41483

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-C5

<400> 41483

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taacagacaa gcctggaaac cccactcagg tgaaatgtgc cagagtaaatt tgaaagggga 180
tcatttatga tgtgttctga tgcaatccta atgtggtgaa tggggaaaac ctcttctgtg 240
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atggtgctgg gctgcctcta cgtcaacctg gttggtccag gctgtgcagt ctccaaccat 360
ggttgtctcc aaaggatgtg cagctgacgt gatggtgctt atcaccacac cctcagagct 420
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<210> 41484

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-C6

<400> 41484

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 cgtaacgacc tccgctgccg ccgtcaecgc cgcacatcgc cgtcgctccc gtgcgccgct 240
 cggggagcgc gtccacatct gctcccgtg cgagttcccc atcgccatct acggccgtct 300
 catcccttgt gaacatgcct tttgtttaac ctgtgcaaga agtgattcca gctgctatct 360
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 tgctg 425

<210> 41485
 <211> 452
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-021-Q1-K1-C8

<400> 41485
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 gcaccaatac cattcccgcg acaacaacca tcggctggaa ccgacaccta agcctcgta 180
 tgtcgtgacc cgacgatgac caccctgaac ctacccgact acccgaatca atgaccgact 240
 ccaactgcga cacactaccg tgcacgcctt acgtgacaca acgaccacgc gaggaccatc 300
 gtgtgtcgcc aaatgagact catggactgc aacgcactat cggctcccat acagctcgga 360
 cctcaccata ggccatcgtc acacgacgca accgtgcac tacacgatcg aactaaaaga 420
 cagccacgat gaggacatat actcactagt gc 452

<210> 41486
 <211> 360
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-021-Q1-K1-C9

<400> 41486
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gcggtggcat ggttgggagc tctgcgctgg gtggattgcg cagtgcggac acgaggatct 120
gaggaatcat cctggtacct ggaatctcaa gtcccaggag aagaacaggt ggttcaagag 180
gatccacaca gtgaggagtt cgatttgatc taggtggcgt ctcccagttg actttatgac 240
gccaaaggatg gacttttagtt tgatctatat ttatatttta ttttggaaga ctaccactat 300
gtaataagta ctctgatgat attgtgacat ttatctctca naaaaaaaag atacaataac 360

<210> 41487
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-B5

<400> 41487

ctgggagtcc accgtcagga acgtcaagtt cgtgtcggac aagacgggga agccggtgtg 60
cattatcacc cccaccgagg ccgcgcacat tcaggccacc gtggcgtgcg ggcgcaagca 120
cgggctgctg gtccgcgtgc ggagcggcgg gcacgactac gagggcctgt cgtaccggtc 180
cgccaagccg gagacgttcg ccgtggtgga cctgtccatg atgcggcagg tgcgcacgca 240
cggcaaggcc gccacggcgt ggggtggactc cggcgcgagc ctcggcgagc tctactacgc 300
cgtggcgaag atgaccccc a gcctcggggt cccggcgggc gtgtgcgcc a cgatcggcgt 360
cggggggccac ttcagcgggg gcggcttcgg catgctgctg cgcaagtacg gcaccgtctg 420
tgacaacgtc atcgacgcca aggtggtgga c 451

<210> 41488
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A11

<400> 41488

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agcatcccgg acacgtatat agacacgctc cctaagaacg ggagagccag cctcggggac 120
gcgctgtacc gaatcatcac agatgtggag ttcgacccgg acgacttcct gtcgacgggtg 180
gacctgacgt ctgagcacia gatcctggac ctcaaggacc ggatcgaggc atcggtcatc 240

atctggaaca ggaaggtgca caacaaggac ggcaagtcct cttggggctc cgccgtcagc 300
 caggagaaga gggagcagtt cgaggagcgg gcgcagacac tgctgctcat catcaagcac 360
 aggttccccg gaatccccca gtccacgctc gacatcgcaa agatccaaga gaacagggac 420
 gtcggggttg cgct 434

<210> 41489
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A12

<400> 41489

cgcctaagca gctatcaacc aaccctagaa agctagacac cgtacccatg gctcgcgcta 60
 gcgtcgtctt tgtcattgcc gctctcctct tcgtcgccat ggctcgtagca ccgatggccg 120
 aggcaaagtc cgccgatgcc cctgtggctg acgcgccagc cgatggacct agcggggccg 180
 ctgctgcacc tggccccag ggtgtcgaag gcctgtcagg caatgaggat gacaatgatg 240
 acttcaccaa ttgagggcac acacgtcggc ccggttaaatt ttggaacaag acatggaaga 300
 aaaatgagag caatgtcttt aaaaccatga taatgtgtgg tcatccactc atccatggat 360
 acatccttgc tctccctctt tttctttctg gttgatttt 399

<210> 41490
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A2

<400> 41490

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 cgggagaagg tgatcagcgg tctgctgctg ggctcggcgg tggcgctggg gtggaagtcg 120
 tcggagcagc agcgcgagat ccagagcctg ttggccgaga agagctctct ccgagccacc 180
 aacgcctcta tgtccgccgc catgtgggcc tggcgggagg agctcttcgc cctcgccgcc 240
 gcgcctcct ccccatcttc cgcgtcccg ctccgccaca tctacggcga ggaggagccc 300
 gcgccgctcg cgcccgccc cgcccgctca ggagcaaatg atgggaagga agaggaaccg 360

atctccatag cctgaactct ttccgcactt ttttccagtc gagcgtgtgc cgtccgtgta 420
 catcatggcc ggctccctga aggctaggag gatgctttg 459

<210> 41491
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A3

<400> 41491

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 gtccagtcac ggtgtacatg gctgacatga actacgagcc tatcgtctcc taccacttcg 120
 acttgagcgg caaggccttc ggctccctgg caaagcccgg gctcaacgac aagattcgcc 180
 actgcggcat catggacgtc gagttcagaa ggggtcgcgat caagtacccc gccgggcaga 240
 agatcgtgtt ccacatcgag aagggtgca accccaacta cctggccgtg ctggtgaagt 300
 atgtggcgga cgacggcgac atcgtgctga tggaaatcca ggacaagttg tcggctgagt 360
 ggaagcccat gaagctctct tggggcgcca tctggaggat ggacactgcc aaggcgctc 419

<210> 41492
 <211> 407
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-021-Q1-K1-A4

<400> 41492

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 gtccagtcac ggtgtacatc agtgacatga actacgagcc tatcgtctcc taccacttcg 120
 acttgagcgg caaggccttc ggctccctgg caaagcccgg gctcaacgac aagattcgcc 180
 actgcggcat catggacgtc gagttcagaa ggggtcgcgat caagtacccc gccgggcaga 240
 agatcgtgtt ccacatcgag aagggtgca accccaacta cctggccgtg ctggtgaagt 300
 atgtggcgga cgacggcgac atcgtgctga tggaaatcca ggacaagttg tcggctgagt 360
 ggaagcccat gaagctctct tggngcgcca tctggaggat ggacact 407

<210> 41493
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A6

<400> 41493

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cggacgagcg gatcgcgagg gtcaaggagg ccttcagcct cttcgataag gatggcgacg 120
gctgcatcac taccaaggag cttggaactg tgatgcgctc cttggccag aacccactg 180
aagcagagct gcaggacatg atcaacgagg ttgatgctga tggcaatggg accattgact 240
tcccagagtt cctgaacctg atggcaagga agatgaagga caccgactcc gacgaggagc 300
ttaaggaggc ctttcgcgtc ttcgacaagg accagaatgg cttcatctcg gctgctgacg 360
tccgccatgt catgaccaac ctggcgaga agctgactga cgaggaggtc gacgagatga 420
tccgtgaggc cgatgttga 439

<210> 41494
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A8

<400> 41494

cccgcgccag ccctaggtcc cggcgctctg gcgtccagcc ggcgcgga gccggtgcgg 60
ccagcccagc gtggcgccct gacgcggctc gccagcatgg atgcctcacc gacgcgtccc 120
cgcacgcgcc cgatcattgc gtggaggagt tgcacagcct cgccatcggc acgccgatca 180
tgccccacca tgcacggccg tcgtcatcag gaggagagac gcggtgagca tgcgcatcac 240
cttcgtcgtg cgtccaagcc tcgccatcat cgagctcgtc gacgccttcg cctctcgcgc 300
atcgaggagg gagccacgcc acgttcacct tatggtagtt tgtcgaggag gactgcgacg 360
catttcgag cttcgaggaa tcgaagatca aacttcggcg accaaatgac ctagttcttc 420
gagttccacg agattgaaga ccctaagc 448

<210> 41495
<211> 407

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A9

<400> 41495

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gacaacagcc tacagaagag atcgatactg atcaggcacc tgagccaatg gtagagggtt 120
aggcaacaag ggaagaggat gggggtgata aagatgactc tggagatgca tcaacggaca 180
tcaaaggcca ggatgctgat gctaataattg acgcaaatgc aattccttta gaagaagagc 240
atgtagtggc aaagtcagag gcaataattg aatcatttga tgatgaccgg aaaacagaag 300
attcgaagga agatgctcag cgtactactg caactgatgt tgatgatgac atggaggagg 360
gagagttggc aaaagaacct gaagacaaga gtgacgttga tatgtca 407

<210> 41496
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-B11

<400> 41496

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gcggtggcgg ccgatgtcgc caacgccggc cagccaagc ccctaacgcc tggcgggcgc 120
gtggtacacg acaaccacgg caagttcacg gccggggcgt ggaaaccgc ccacgcaacc 180
ttctacggcg ggcgtgacgg gtccggcacc acggcgggcg cgtgcgggta caaggacacg 240
cgcacgcagg ggtacggcgt gcagacggtg gccgtgagca ctgtgctgtt cggtgacggc 300
gcggcctgcg gaggttgcta cgaggtgcgg tgcgtggaca gccctagcgg gtgcaagccc 360
gacgcggcag cgctggtggt gacggtgacc gacctgtgcc cgccaagga ccagtgggtgc 420
aagcca 426

<210> 41497
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-B2

<400> 41497

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ggtgggtttat gatccacatt cgacacatca gatgaaaaaa tgatttggtc tgggaacaaa 120

ggccacaaa gattttttat cggctacaat aaatacaaat gttgagacaa gctcaatctt 180

cctcctcacg aatcagcgcg aaggagaatg gggcaaactt gtagccatca ccttcataga 240

acttgttctg gaactccacc cagtgaagcc tcagcgcgtg aaggaatgca ctcagggctc 300

ccataacaag caagacacca atcgtggcaa agatgaagat gacgacacca ataataagga 360

tgaaaacatt gttaaaccce tatgccgtca ttagtacttt ctgtagaat acagtggaca 420

actcatagtg tgcaagactc agagcccaaa ga 452

<210> 41498

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-021-Q1-K1-B3

<400> 41498

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tgtccccccc ggacaccgtc aaggccgccg tggccgagtt catctccatg ctcattctcg 120

tcttcgccgg ctcaggatcg ggcattgcct tcagtaagct cacggacggt ggccgcccca 180

ctcctgccgg cctcatcgcc gcgtctctgg cgcacgcctt agccctcttc gtggccgtct 240

ccgtgggtgc caacatctcc ggcggccacg tgaaccctgc cgtgaccttc ggtgcctttg 300

tgggcggcaa catcagctc ctcaaggccc tgggtctactg ggtggcccag ctctgggct 360

ccgtcgtcgc ctgccttctn ctcaagatcg ccacgggcgg cgcggccatt ggcgccttct 420

cgctgtcggc gggcgtc 437

<210> 41499

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-B4

<400> 41499

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atgggttcata ggatatctag tgtatagtct tcttgacga aagaagataa tgttttgctg 120
tttcagcaaa catctgaagt atgagtttta ttattaagag gtcttttctt taacttatgg 180
cgagtttagc atcggtcagt tatcaaacag ttaaagcgtt ttctgaaatc ttgtttgaat 240
atccgcagtc ctttttttgg ttggcatgc agaattattc tgaaacgttt agtaccocgt 300
tgttcgtaaa ataaa 315

<210> 41500

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-A10

<400> 41500

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gttttatatt cattgtgatg gtgccctttt tggattgatg ataccatttg ttaagaaggc 120
acctcaagtg acatttaaaa agcctattgg gagtgtcagc gtctctgggc acaagtttgt 180
cggatgcccc atgccatgtg gtgtccagat aacaaggttg gagcatataa atgccctttc 240
tagcaatgtg gagtatctgg cgtcaaggga tgcaacaatc atgggaagca agaatggcca 300
tgccccta 308

<210> 41501

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-020-Q1-K1-G3

<400> 41501

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agaggggtga gcactgaaga cactgtcagc gtgaactatg atgacttcat aaatgatgtt 120
gaagctggcg acatactatt agtggatgga ggaatgatgt cgcttgctgt gaagtctaaa 180
acagccgata cagtcaagtg taaagtagtt gatggtgggg aattgaaatc acggcgccac 240

ctaaatgtcc gtggaaagag tgctactttg ccatctatca ctgagaagga ttgggaagac 300
ataaaatttg gtgtcgaaaa cggcggtgat ttctatgcag tttcctttgt gaaggatgcc 360
aaagttatcc atgaattaaa agactacctt anaagtgcta atgccgatat acatgtcatt 420
ccaaaaattg aaagtgcaga ttcaatacca aacctgcagt 460

<210> 41502
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-G9

<400> 41502

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atcggcgccg gtgacagctg acagggacga gatggacgcc ggcggaggcg gcgtcttggt 120
cgccgttctc tgcattgtgc tggctcttgc catcttcccc ctctctctct ggcgccgccg 180
ctccgatgcc gccaccgccg ataaccaccg cgttccgccc cagccccctcc aggaggatca 240
tgtgtgcac ggtcgcgcgg cggcgcgacg gatgcgtcgg aggcctgggg ctgccggagc 300
aagctcctct actgctcaa ctaaccgcaa tgctgtaaag gacgacgcgg agagtgcga 360
tgaagaggtc cccgaaagtc gcaacgtccc caaatccttc aaaaa 405

<210> 41503
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-H1

<400> 41503

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ttgaggaaat ccatggcctc catggcaaag gtgtttctgt tgagaatatt tcttctcagc 120
tttcaccttg ggcattctga ctctttgagt ttttgcccc ttttatcagg aagcagctac 180
tactacatcc tgaatctgat gattcagctc aactttccca gattgagact gaaaagctgc 240
tagcccagtt agttgagact gagatgaaca gacgtttgaa ggagggcact taaaaggaa 300
agaagtttaa tgcaatctgt cacttctttg gctaccaagc taggggagca ctgccttcaa 360

agtttgattg cgattatgcc tacgttttgg ggcattgtgt ctaccacatc at 412

<210> 41504
<211> 466
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-020-Q1-K1-H10

<400> 41504

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cttacaacaa aaaacttgaa ctgnaagtgt aacattttta agggaatctg gacgtataaa 120
accatattgg aaaggaagat gcaaaatcga aggaaatgct cgataagttg catgaagcac 180
tgaaagagaa agatgaagaa atggatcata ttgattctat aaaccagacc cttattatta 240
agcaacgaag aaccaatgat gagctggaag aagccaagaa agaactgact actgacctac 300
ttaatatgtc atcagctcga tccattgttg gtgtcaaaaa aatgggtgag cttgacaaga 360
aagctttcat tgtctcttgc aaagagaaaa catcagacga gttgtcattg tcaattctgt 420
gctcgaaatg ggaagatgag atcatgcaac cagaatggca tctttt 466

<210> 41505
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-H11

<400> 41505

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tggtgcccgc gcgttcccgt gcggcaactg gccgcgcgcg ccgcactacg ccaggtgccc 120
aattcctcgt cgggtcctcc gccggcgacg agcaccacc agaaaactgg agtggactct 180
acatgtcaag acagtatggc gccaggaagc aaggcggaga ggaaagcagc actagacgct 240
ggcgcattgga tgttcaatgt cggcacatcc gttggtatca tcatggtcaa caaagcotta 300
atggcaacgc attggtttag tttcgctaca acgttgaccg gacttcattt cgcgatgacg 360
accttgatga cattagtaat gaaatggctg gatat 395

<210> 41506
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-H12

<400> 41506

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tttgacagcc tgtccacaca ctaaggacct ctggttttca tacacaacgc tgcccgctctc 120
tttttcattc taaccgtgct ataatcctta tgcacaccta acacgacaac aaccaacaac 180
gaagaaactg cagcagactc tacatgcgct tatagaatca acccaggaac cttcgacatc 240
tgcaaactcg gatcgaacac tgacgcttag acgtactata caaagacatt ccatgacacc 300
ttgacgttaa acaacgaatc gatcgaacc cccactgtta ttatccctac agccgactac 360
ctac 364

<210> 41507
<211> 180
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-H5

<400> 41507

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ttccctttac ctcaaagatc atcacttata gtatcttttag gaacgccttc ttaaagatct 120
tatcaataaa cactcatatt ttatcatcta cccaatctct ctctttatcc ataataccac 180

<210> 41508
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-H6

<400> 41508

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gccgcctcca tccgagcgaa caaaccatcc gaccccgctc ccaatgcaat ccgtcttcga 120

cgtaccacca ccaccgcatg agcgagatgg agatgaagag gatcctcttc gccgtcctcg 180
tcttcacga cgcctcgcc accgtaatgc tgtccttcac cgaggccttc gtcgagtga 240
ccccaactgc ctccaagtcg ttgcgcgagg ctaccgcttg cgctgtcgct tgcgctgccg 300
cttgcgccgt ctactctgag ccc 323

<210> 41509
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-H9

<400> 41509

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aaggggacag ttgaggggga atcttgaggt atggaagcat atgggaaagg aagatgcaaa 120
atcgaaggaa atgctcgata agttgcatga agcactgaaa gagaaagatg aagaaatgga 180
tcatattgat tctataaacc agacccttat tattaagcaa cgaagaacca atgatgagct 240
ggaagaagcc aagaaagaac tgactactga cctacttaat atgtcatcag ctcgatccat 300
tgttggtgtc aaaaaaatgg gtgagcttga caagaaaact ttcattgtct 350

<210> 41510
<211> 477
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-021-Q1-K1-A1

<400> 41510

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gccgtctct ctgtctctcc tgcgcgtggc gcagctgccg tctatacca ggcgcccagg 120
tctagcctcg tcggtgcctt cgccaggtct ttctcgggcc cttecgccaac gacgagcgcc 180
cgctagggtta gaaggtatgc attcgtgttc ataatttgt atttgactaa aaagactggg 240
cctacgcatg ggggctccaa aacagagggtg gacttctgag gaagaggctg ctcttagagc 300
tggagtagcc agacatggag ttggaaattg gcgcatgata ttgaatgatc cagaacttag 360
ctccacattg cgctaccgct cgaatgttga cctaaaggac aaatggcgca acatgaatgt 420

aattgtcact tcacgagta ctctgacag ggggagaact tncacgagga gaacccc 477

<210> 41511
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-G2

<400> 41511

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tatgattttg tatatttttc ccatattatt cattttgcaa attaagtttc aaacgagtac 120
ttaggaggtt aatgacacag ttgtatgatt gtatatctta atggaagatc tgttaattta 180
ttaatgtttg cttgcataac atgtgcatga tgccttttgt gtacagttta tcttaaattg 240
aactatataa agatttggtt tgatacttct gtatcttttg atcataaact cctatgttgg 300
aggccataga cagaactatc aacttacct acttctcgca tggctaacgt tatagatgct 360
agtaaggttc tgggtgtgcag cttgggggtt taaacact 398

<210> 41512
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F1

<400> 41512

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aggtccaagg accggttcaa gagggagctg gatggcattc aggtggagct acaagcaacc 120
gacccgagcg aatgagcat ggacatcgtc aagtcgagag ccctctgaaa cagccccggc 180
cgctgcacct gcacgctgca ggggcgcacg ggctcctgca tgcccgtggg tcgtcgaatc 240
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gccctgcatt ctatatgaga ctgtatgcca ttttccatct ttttctctcc ccatactct 360
gccctagtcc tgctaccgct gtagactaga acttatttgg tgtttgatct cgtggcattg 420
tcgagtcttt tatgtgtcta tgcaatgcta g 451

<210> 41513
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F10

<400> 41513

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gggccgtgggt gtgtgccaag gccggctgcg acgacgacca cctcgactgc caggccggtc 180
cgttcgcgct ggtctgcgta gagaccaacc tctgaagcc tgtattcgcg tgcgcgacca 240
gctactcgtc agtgaccggc gcgtggagtg ctcccgaggc caaccatgac agccacgact 300
tcaactacta ctgcttgaga agctatggca agcagagcct tcttgctggc gatgccgtct 360
acttctctct ccaggatgac caaagcatcc tcacgtacga cctgggtagg ca 412

<210> 41514
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F11

<400> 41514

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cgcgcggtgtg tgttcctcgt ggtgctcctc ctggccgccc tcgcgggtggc gccgtttgcg 120
ggggctgcgc gtgtggatgt cgtggagggc aggtccatgg cgtccgccga cgcgcctgag 180
gcggcggctg acgcgcccgc tcccggctcc gactccgcct catacccga ctcgccgtcg 240
gaggcgccct ccagcagcag ctcatcgac tagccgcgca caacgcagtt cttgtcatga 300
tctatctagc aaataaaaag atcatatgtc tcgtttgatt ctctggaata actaatagta 360
tatatgctgc gcccgatga tatataaata tgtgcatcaa atgcgtgcgg caaacgca 418

<210> 41515
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-020-Q1-K1-F12

<400> 41515

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cggggagggc tgctacgggc gcgtctacaa cgccacgctc agcgacggcc gcgcgcgct 120
catcaagaag ctcgacacca gcgcctcgca agactccgac accgacttcg ccgcgcagat 180
cgcgatggtc tccaagctga agaacgagta tttcctggag ctctagggt actgcttga 240
agacggcaac cgaatgctaa cctatcagtt cgccacaatg cggtctttgc acaacatact 300
acacgggaag aagggagtc agggcgcgga gcccggtccc gtcctcaact gggctcagcg 360
agtcaagata gcctacgggg cagcgagagg gctggagtac ctgcacgaga aggtccagcc 420
gtacatcgtn caccgggaca 440

<210> 41516

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F2

<400> 41516

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ggggtactgt tactactacg gcggctcatt cgccgcggtg gagacggcgg ccttcttgaa 120
ggcgtgcggc cgatgcagcc gtcgcctcgg gcccgccac gacacctca tctacagggg 180
cgaggtggcg ttctgcagcc aggagtgccg ggagaagcgg atcgagtacg acgagcgcat 240
ggagaagacc tgctgctcac tgacctccat caaggaggcc ccgtccgtgt ccggcgccag 300
cggctccgac cagtccggca gcggc 325

<210> 41517

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F3

<400> 41517

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ttgaggacct tgggattgcg actttatattg gagttgagct ttatgcatgg ttctgcgtag 120
gcgagattgt tggcagaggt ttcaccttaa cgggtataa ggtctagttg atttccagtg 180
atttaagacc tgctttataa atcgacactt tagctgatgc ttgtcgaaac gacgatgata 240
cctgccttcc ttcacaattt tgtttcttgt aagagtctac ctagtgctga atgccagcaa 300
agacgggcac atggttgcaa cattgcctca ataatttgcc cgcgcaattc ttgattttga 360
tgcattgtaat tctttgtcag ttgcattgtgc tgcagtcctt gcgtgcagac tcaaa 415

<210> 41518
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F4

<400> 41518

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tcgaaagggtg gtaataacta acttggaaga aggaaaagta ctagaccttg atggcaaaat 120
gtggcctgat gcttctgata ctgatgcttc ctcccactat aaggttccgt tctcaagaac 180
tgtctacatt gagaaaactg attttcgcct aaaggactca aaagactact atgggctagc 240
ccctggtaaa tctgtcatgc taaggatatgc gttccccata aaatgcacag atgttatctc 300
tggtgatagt cctgatgata ttgttgaaat tcgagctgaa tatgatcctt tgaagacttc 360
taaactgaag ggtgttcttc actggattgc tgagccagca cctggtgtag agccattgaa 420
ggtggaagta agattattcg agaaattggt catgtcag 458

<210> 41519
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F5

<400> 41519

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acgcagggtc cagccggccg tcactctgct tctcctgctc attgtgtcca ccgatatggc 120
acaggcaagg gaatgcgaga agtacagtga gcgatttggt ggggcatgca tgatcgcaga 180

caactgcgcc aatgtgtgcc gcggtgaggg cttcttggcc ggcaggtgca gcaccttccg 240
 ccgccgctgc atctgcaacta ggcagtgcta aacaagatcg ctcgatcgct cgccatgcat 300
 cgacaaccta ttcttaataa cgttcattat ctggttctta tttatgacga atgtcatgta 360
 tgttctgggtg actgtcatgt atattctgat gactgtcatg tatcttggtc atgtatgctc 420

<210> 41520
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F6

<400> 41520

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 cagaagttga ggatgatagg cgtaaatatg aagatgaaga gttttatcat gagtcagaag 180
 atgaatatgt tgacgactat gatgagcatg ttgagtccta caaatctgat gatgaccaa 240
 aagatttaac tgagccagga catgcatcgt ggttgacaa agttcagcag actgtacaaa 300
 atgttttcca aaaattcaac ttttttaaga ccctgtaca tttgtcagag gcttctcatg 360
 ttcgtaagga gtatgatgat gctagctcaa agctttca 398

<210> 41521
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F7

<400> 41521

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 ccagggctcg cgctagcgtc gtcttcgtcc ctgctgctct cctcttcgtc gccatggatg 120
 tggcaccgat ggccgaagca atgtccgctg atgcccccta cgacgatgcc cgcggactcg 180
 ctgctgacgc acctgtcgat ggacctatcg gaccggcagg tgcacctggt ccacagggcg 240
 tagagggact atcggccatt gaggacgacg acgatgactc caccaactaa ggccaagcac 300
 gtctgtccga ttgcatttgg aacatgatat gaaagaaaag tgagagcaat gtttttttaa 360

accaaaaaatc cataataatg tgtgggtcatc cgtgatatgt aattgatctc cctctcttttc 420
 tttctgtttg atttcgatgt gtta 444

<210> 41522
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-F8

<400> 41522

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 cggcagctgc cacacgccgc ggcgaagga gctgggtggag aaggcctgcc tcggcaagcg 180
 catctgcacg ctgcccgtgt ccgccgacgt ctacggcggc gacgtcaact gccctggcac 240
 caccgccacg ctgccgtgc aggccaagtg ctccaagagg tcgcccagag ccgcgcagta 300
 attcggtagt cgtcggcttc ggctcgggt tgctacctcc cgtcgtcttt cattcttcat 360
 tgctgatgct gctgctgtac catgggacca ttatctgacc ggagacgtcg attcggattt 420
 cggacccatc catgcgtggc tgggtgggga aacagattgt c 461

<210> 41523
 <211> 332
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-020-Q1-K1-F9

<400> 41523

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 gcggggcggg ccggccgccg ggcgaggtgc gcgtacctgc cgtcgatcgt cgccggatcc 120
 atccaccatg ggcggtggca acggccagaa gtccaagatg gcccgcgagc gcaacttga 180
 gaagaacaag ggggccaagg ggagccagct cgagaccaac aagaaggcca tgagcatcca 240
 gtgcaaagtg tgcattgaaa cattcatgtg taccacgact gaagtgaagt gcanggagca 300
 cgccgaggcc aaacattcca agacagacgt gt 332

<210> 41524
 <211> 465
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-G1

<400> 41524

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 atcagcggcg accaccagga cgagatctgc gacgtgcgcc tgctcaagag ccccgaggcg 180
 gactgcgccg agatcgacca ctcccgcgac cgctgcgcgcg tcccgctcac ccgcaacgac 240
 ggcataagc agagcggcgt ccgctacgcc aaccccatcg ccttcctccg caaggagccg 300
 ctccccaact gcggcgagct gtcgcgcgcc tacgacctt acaacgagac gtccgagaat 360
 tcctaagcgt ccaaacaaaa gttctctcgc tcgctttttt tttaaaaaaa aaatcccata 420
 tacatatagc acatttggtt cggtttgttg atgcgcgcat gcatg 465

<210> 41525
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-G10

<400> 41525

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 agcgacgcta ttgcgggtcg gttcgtgcac caccocgctc accttccagg tcagcaaggg 120
 ctccaagcct ggccaattgg tctcaccacc caacgttgcc accatctctg acgtggagat 180
 caaggagcac ggtggcgacg acttctcctt tacgctcaag gaggggtccga ctggcacctg 240
 gacgcttgac accaagaccc cgctcaagta cccctctctg atccgcttcg ctgtcaagtc 300
 cggtggctac cgcacgcgcg acgacgtcat ccccgccaat ttcaaggccg gcaccaccta 360
 caagaccacc ctcaacatgt aattagcctc ttatgacaaa taatatatttg agagagctca 420
 tctggaccaaa gtgccagcga gctaaatatt aaattttttt ttt 463

<210> 41526
 <211> 405

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-020-Q1-K1-G11

<400> 41526
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 cctggccang gccagattg actctgttct ggatcttgca cggcgcacaa ttgtgtccga 120
 gctctccaac aaggatttcg actcatatgt cctttctgag tcaagcttgc ttatctatcc 180
 tctgaagatt gtcacaaaga cctgtggcac taccaagctc ctgctcacca ttccaagaat 240
 ccttgagctt gctgaagagc tgtctatgcc acttgctgct gtgaagtact cccgtgggac 300
 gttcatcttt cctggcgcac agacagcccc ccacaggagc ttctctgagg aagttgctgc 360
 acttaaccgc tacttttgcg gcctgaaatc tggcggtaat gctta 405

<210> 41527
 <211> 351
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-020-Q1-K1-E9

<400> 41527
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 catggtcgtg ggcgcgcgtc ttgcggcgct cgtcgccggc gggcgtgctg ggcggccgaa 120
 ggtgccaccc ggcggcaaca tcaccaccaa ctacaacggc aagtggctca ccgctagggc 180
 cacctggtac ggtcagccca acggtgccgg cgctcctgac aacggcggtg cgtgcgggat 240
 caagaacgtg aacctgccac cctacagcgg catgacggcg tgcggcaacg tcctcatctt 300
 caaggacggc aaggcgtgct gctcatgcta cgaggtgaga tgcaaggaaa a 351

<210> 41528
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-020-Q1-K1-D4
 <400> 41528

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gccgcgctct tggtagctagc cctcgcgcta gtggcgccca ccgccccaca ggtagcggag 120
gcaaagaaga agagagcggc ggagagcggc gaggcggcgg aggcgaagaa gatccaggac 180
gacttctgct cgacgctgtg cgagggcaag aaggggacgg acctggctgt gtgcaaggag 240
tcctgcgcgc tctcccatca gtccaacctg gtgctgtacg gcaggatcca gtgcaagggc 300
aagtgcaccg agcagaatgg catcacggcg ccggccatga aggtctgcc a ggaggagtgc 360
gacaaggcgt acgtggtg 378

<210> 41529
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-D5

<400> 41529

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tcggtttttt tttttatttt catccaactt taattttatt gccctttttt catagcacac 120
tactgttcat ataatctctt taccgaactc aaaatgctat agggtcattt ctctttcacc 180
agctagaata ccatagatta cgtgtacact tgaatactct acccaaca 228

<210> 41530
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-D7

<400> 41530

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gggctgtaga gggtttcatt ctacctttcg agcaaccag agtggacttt cactcaatat 180
cgatgtgtcg actacaatga tagtgaaacc tggctcgtgc attgattttc tgcttgacaa 240
tcagaaagtt ggtgatccaa gcatgattga ttgggctaag gccaaagcgt cactgaagaa 300
cttgaggata aaaataagtc cagcgaacca acaacagaag attgttggtc tcagcgaaag 360

aacttgctgt gagcaattat tcacactgaa acataaaaaat ggtaacaatg gtgactctga 420
agagatcact gcttatgatt acttcgtaaa gc 452

<210> 41531
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-020-Q1-K1-D8

<400> 41531

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acaagcacga gggctacaag aacaaggatg gcaagggaaa cctgaagccc tctcagtgcg 120
gcggggagtg ccggcggcgg tgctccaaga cgcaccacaa gaagccgtgc ctcttcttct 180
gcaacaagtg ctgcgccaaag tgcctgtgcg tgccgcctgg cacctacggc aacaaggaga 240
cctgccccctg ctacaacaac tggaagacca agaaaggagg gcccaagtgc ccgtgagaag 300
atggcggccc aatacgcggt tttcccgggc gctacgcggg cgggcccgtcg gcccaacgta 360
acctaccacc gtagttggaa gcgtcgtang ttaggttagg aataacagnn ctctcttttt 420
tttctctcct cgttccgtgg ttgtttgggc cgggc 455

<210> 41532
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E1

<400> 41532

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gagcaagcga gcaaaggcag cagccatgtc gctccgctg ctgaacccta acgccgaggt 120
gctcaacaag tcggcagcgc tgcacatgaa catcaacgcc gccaaaggcc tccaggacgt 180
gctcaagacc aacctcggcc ccaagggcac catcaagatg cttgtgggtg gagctggtga 240
cctgaagctg acgaaggatg ggaacaccct cttgaaggaa atgcaaattc agaaccaaac 300
tgcaatcatg attgcgagga cggctgtggc acatgatgac acaagtgggt atggcacaac 360
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<210> 41533
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-020-Q1-K1-E10

 <400> 41533

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 catgagcggg ggcgcggttc ttttggcgct cgacaaccaa gggtcggacc gacccccgaa 120
 ggaaccaccc ggcccccaaca tcaacaccaa ctacaacggc aattgactca ccgctagggc 180
 cacactggac tgtcagccca acggtgccgg ttctcctgac aactgcgtaa cgggcgggat 240
 caagaacgcy aacctgccat cctacagagg catgactgcy tgcggccact tccacaattt 300
 ctaggacgac aatgactgcy gctcatgcta cgatgagtga tgcgaggaac aacctgagtg 360
 ctcgggcact ccaatcacgg cgtacataac tgacatgaac ta 402

<210> 41534
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-020-Q1-K1-E11

 <400> 41534

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 ggctggacaa atactgagct agccttcaga aaaaaaaaga aaagaaagag attgagaagc 120
 agggagaaaa aatggcactg gccattgag gaagcttgag aaccagttaa caagaattgc 180
 caacatattc ttggacaatc ttgttaacag agttttaagg tttcccagca gacatttttc 240
 gagtccagga agagcgcytg caaccaccac attcatataa ttaataagca aggttttagag 300
 aagaggcaac atgggcacaa agatgaagaa ngggatcctg aagccgttcc gctatatctc 360
 aaccatcatg gatggtaagg aggctgaaat gcaaattggg ttcccagcgg atgtaaaaca 420
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<210> 41535
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E12

<400> 41535

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 cgtctgcata accaagagct tcgagttcga gaagctgctg cgcgtcacgc tggacctcat 240
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 gccggtcgga gggtaaggct cgtcagctgg cccccccgcc tacggcgctg cgtcttctga 360
 tgccccagct tatggcgcca gcgaccagc accgacctcg gagcagagta ctgcttagac 420
 tgcattgagt atattctggc ggcacacacg ca 452

<210> 41536
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E2

<400> 41536

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 cgccaccacc accgctccgt tgcgcccgcc agccgtcacg cgtgacgttt cccggggggc 180
 cgggggagag agaggcagaa ggaggaggca cggagaggac gagacaggat gctcgggttc 240
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 gaggggggtg cggccgtcgt ggcggcgcg caggggatgg agaagccgct gacggctgtg 360
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<210> 41537
 <211> 190
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E3

<400> 41537

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tgagcagtgg ctaccaagcc acgtgctctc tagatatcca atgacatcca ttgagagagt 180
caaagaagat 190

<210> 41538

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E5

<400> 41538

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caaaagaaag ggttcaaadc aaaggagcaa agtaacgcac cggacagtgt ccggtgcact 120
aggaagatcg actctgaact tgccagtttc gggaatttga gaggcogctc ctctataatt 180
caccggactg tctggtgtaa cactggacta tccggtgtgc cagcggagca acggctactt 240
cgcgccaacg gtcgtctgca gagaacatta aatgtgctac aatgcgtgcc tgcgcgcgca 300
gaagtcagtg caggcgtcag aaggcgaacc ggacagtcta caggacctgt ccggtgcacc 360
accggactgt ccggtggccc caattgtcag agtccaacg gtcggaaccc aacgaccaag 420
tgatgtggct agcgcacccg acagtgt 447

<210> 41539

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E7

<400> 41539

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taggagagga tgaagctagg atatactttc atcaacttat aaatgcgggtt gattattgtc 120
atagccgagg agtgtaccat agagatctga agccagagaa tctacttctg gactcacatg 180

gaacccttaa agtttcagac tttggcctaa gtgcatttgc accacaaaca aaagaggatg 240
 ggcttctgca tactgcctgt ggaactccaa actatgtagc gcctgagggtg ctgctgata 300
 aaggctataa tggatggct gcagatgtat ggtcctgtgg cataatcttg cttgttctta 360
 tggccggata cttacctttt gatgatgcca atctgatgag actgtacaaa ctgatctgcc 420
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<210> 41540
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-D3

<400> 41540

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 cgtaccactc gtcttcgtct agcctccgc ccgcagccac catggcaccc ggctctaca 180
 ccgacatcgg caagaaaacc agagatttgc tgtacaagga ctacaacacg caccagaagt 240
 tctccctcac cacctgctcg ccccatggca tcgcaatcac agctgcagga acaaggaaaa 300
 atgagtcac ctttggcgat cttcacactc aaattaagaa caataaattg acggtcgatg 360
 tcaaagcgaa ctcagaatca gatcttttga caacaatcac ttgtgatgag attggtactc 420
 cagggtcaa atcaattctc actttg 446

<210> 41541
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C1

<400> 41541

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 cttagatgat aacattgatg atgaaaagt gcgtgaaatc tttgctgagt atggcaatat 180
 tacttcttgc aaggttatgc gggattctta tgggtgttagc agagggtatg gattcgttgc 240

attcaaatat gctgaagatg ctaaccgagc tcttaccgag atgaatggca taatggttgg 300
aagcaagccc ctttatgtag ctcttgaca gcgtaaagat gacagaaagg caaagctaca 360
ggcacagttt taacatatgc gtctgttgc aatggcacct tcagtatgtc ctgcgatgcc 420
catg 424

<210> 41542
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C10

<400> 41542

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gaggagtcc tggaccgtgc ccggtcccg ctcacctcca acaacggcat aaaacaacag 120
ggcgttcgtt acgccaaccc catggccttc ttccgtaagg acccgataaa cgattgccgc 180
gccctactat agacgaacga tctaaaagac gcctccgaaa caccatgata agcctgcgcg 240
ctgggcatac ctgtatccat tgctgccctg cccgtcacc caagaattga agatggtagc 300
tgcactacgc gccatctgta tagtgataca ctatgcactg catgcgaagg catgagataa 360
tgggtctgac ctcat 375

<210> 41543
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C11

<400> 41543

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ttctacttt gtggagtgga tccctaacaa cgtgaagtcg agtgtgtgtg acattccacc 180
catcggcctg aagatgtcct ccacattcat cggcaactcg acctccatcc aggagatgtt 240
ccgccgcgtc agcgagcagt tcttgccat gttcaggagg aaggccttct tgcattggta 300
cacgggtgag ggcattgatg agatggagtt cactgaggca gagagtaaca tgaatgacct 360

<210> 41544
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-020-Q1-K1-C12

 <400> 41544

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 agcagctgat gagagtgtac ggagcactgc tgtggtcgct cgggaaagtc ctgaacacac 180
 cagaagtcac gcgtgtctac ataggttcat tcaacgacaa gccgatcagg gagacagcgg 240
 ctgggccgct gggcatggag ctgttccaga aggaacaaga tgacttgctc tcggacctga 300
 acgacatccc caagaaggcc tgcgaccgtc ggatcaacga gttcgtgaag cgggcgaagg 360
 cggncaaaggt ccacgcgcac ataatcagcc atctgaagaa aagatgcctg cgctgatg 418

<210> 41545
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-020-Q1-K1-C2

 <400> 41545

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 gagtagagga tgcccccttc tcggtataaa tgctacacca accctgagtc acaaggagaa 180
 actttttctt ggcaatggat ggcagagagc cgttgcatgg gatatgctga aaatctataa 240
 tgacttcatt gacagtcaag aaagacgcag gatcgaacgg ttagaactgt ttgatgagtt 300
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 gggcatatct gacagttttt gatttgggga gacat 395

<210> 41546
 <211> 332

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-020-Q1-K1-C3

 <400> 41546

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 ttctacactc ctgtcttttt cttgtatgag ccgattcata ctgatgaaac attttgaaag 120
 catacgatta aaaaacctga aagtgaagaa ccccgaaagt tcgcattacc ggactcatga 180
 tacatatctt ccagatgaga aactttttct tagaaaccga tagaagacat ccgatacata 240
 gaatataatg gaactctata aagaccacat tcgctaccgg gaacgtcatc gtattgacca 300
 ggtcaaactt cgtggtcagg actattattg at 332

<210> 41547
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-020-Q1-K1-C5

 <400> 41547

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 aggatcctca tcgccgcgct cctcgtagtc gccgtctcgg ccaccgcagt gctggcctcc 180
 accgaggccg ccgccgccgg cgccccagcc gcctccgagt cgteggcgtc cgccgaagcc 240
 cccgctggcg ccgccggcgc cggcgccggc accggcaccg ccgcggggcc ctccgccagc 300
 ggcgcgcgc ccgccctcgc cgccgcgcc gccgcgctcc ttttctccct cctcgcttac 360
 tacctgcact aagcggacgg acggacggac gcgcgcatgg cattggcatg catggactgt 420
 tgaacatcta tgcagcatg gacgacgtca 450

<210> 41548
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-020-Q1-K1-C6

 <400> 41548

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 gtgggtctcta ttatcattat caagcagctc gccgagccct cttcctgaaa gaatgttgta 120
 catattagca tttgaactct ggccagtatc gcggaagaag ttgggtgctg tttggttcac 180
 gaaatgtaac gtaaagggtta atggtaacgg ttacactcg attacggacg gtaacaagtt 240
 tgaatagtcc ggtatcaaatt tttagtatgg tatctgatta cggttggact aaaacaaaca 300
 tgatttaacg ttatcactta cccattacgt tacaatatatt tgaatcaaac ggtaccttgg 360
 tgtttaac 368

<210> 41549
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C7

<400> 41549

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 ggaccctga acgttcgcat gaccggactc gtgatagaga tctacgagat gagaagcatc 180
 accatagaga ccgtgagagg actcgggata gggagagagg aaaggaccgt gaaagagacc 240
 acggtcgtga ccgggagcgt gatcgtcgtg acagggacaa ggatcgtggt cgggactatg 300
 atagagaaaag ggaccgtggt cgctctcatg atcgccatcg tgagagaggc agggaccgtg 360
 gtgaaagaga ttatgagcgc accatccatg aacgtgaccg tggtcacatg catgagaggg 420
 atgcagacta tggcaatggt gggacaaagc atgacaa 457

<210> 41550
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C8

<400> 41550

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 agggagcgcg ctctctgagc ccagcagaga aaggccggcc taccactct ctctctctct 120

ccagtctcca ccggcagcgc caatagtaat agccatgggc tccaccgccg ggcagctggc 180
 cgcggtggtg gacgaggagg cgtgcatgta cgcgatgcag ctggcgctgt cgtccatcct 240
 gcccatgacg ctgaagaacg ccatcgagct gggcctgctg gaggtgctgc agaaggaggc 300
 cggcgggcgc aaggcgggcg tggcgcccga ggaggtggtg gcgcggatgc ccgcggcgcc 360
 cggcgacccc gccgcgcgg cgccatggt ggaccgcag ctccgcctgc tcgcctccta 420
 cgacgtcgtc cggtgccaga tggaggaccg gga 453

<210> 41551

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C9

<400> 41551

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 gcaccgccaa tgggtgcctcc aaggtcaccg tcaaggacgt caccttcaag aacatcaccg 120
 gcacctctc caccocggag gccgtcaacc tgctctgtc tgccaagatc ccatgcaccg 180
 gcgtcaccat ggacgacgtc aacatcaagt acagtggcac caacaacaag accatggccg 240
 tatgcaagaa cgctaagggc agcgccaagg gttgcctcaa ggagctcgca tgcttctaga 300
 accaccatcg acccatctct ctagttatac aatgtgtttg gttgttgat gctg 354

<210> 41552

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-D1

<400> 41552

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 cctgaacttt gatgctttac atggagacaa ggaccatggt ggtgtgctgc acgggacggc 180
 ccttgtgctg tgggagtggg gcgagggaga caaccagcgc tggaagattg ttccctggtg 240
 aacaaggaaa tgtgtgaccg agcccgacc aaggaggagc tctgtccgta ataagtgaag 300

tgattggtac tgaagtttct ggaaataaga ggctcttctg agatgcctgt ttgtgtgagt 360
 atttgcgttt ccattccgtt ttcattgataa taaaacgcat tgattattaa tatatgtaat 420
 gtgatgctac actgagtggc agcgttggtat tatatt 456

<210> 41553
 <211> 351
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-020-Q1-K1-D10
 <400> 41553

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 gatgtccct tccacctgg gaggcaggac aagcctgagc cttcaccgga aggccgtctt 180
 tctgatgcca cccaatgttc tgatcacctt aggcagggtt tctccacaca gatgggttag 240
 agcgaccagg acattgatgc gctttctggt ggtcacaccc tgagaagatg ccacaaggac 300
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<210> 41554
 <211> 345
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-020-Q1-K1-D11
 <400> 41554

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 agatatgtga ttttgggctt gctcgacca cctcagaaac tgattttatg actgaatatg 120
 ttgtcacaag atggtataga gcaccagagc ttttgttgaa ctctcagaa tatactgctg 180
 ccatcgatgt gtggtctgtg ggctgtatat ttatggaact gatggaccgc aaacccttgt 240
 ttcttgaag agaccatgtc catcagctac gtcttctaata ggagctcatt ggcacgcca 300
 atgaggtga tcttgatttt gtaaatgaaa atgcaagaag atata 345

<210> 41555
 <211> 428

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-020-Q1-K1-D12

 <400> 41555

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 gaagaggtga ttgggggaaa tatgctcaag ttacaaacaa cccggagaac gatggctgta 120
 tcaatgctgg tttgctagt tagatccata gtgagatttt gttgatggag gagaatcgtc 180
 ccatttgtat ctgctccgat atgctatttt ttgaccatgt catggctaata accacgagtt 240
 tgttgtgcac catgggcata atgagcattc tgtattctcg ctgtgtgcta caaacatata 300
 tggaggaata taaattagca gtatttggtt tttttttttt tgagctcccc ccacttctc 360
 aaaaccctag acagtcctta cctggaaaat ttccacatgt acaaccctta acaattgacc 420
 tgggtggaa 428

<210> 41556
 <211> 230
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-020-Q1-K1-B9

 <400> 41556

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 tgacgccaag gatggacttt agtttgatct atatttatat tttattttgt aagactacca 120
 ctatgtaata agtactctga tgatattgtg acatttatct ctatacactc tgttactata 180
 tgtgtgtgtc tctttggcgc atatatgaga tgcacccgac tttatccttt 230

<210> 41557
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-020-Q1-K1-A5

 <400> 41557

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cggatcatcg aaggtgctac agatggaaag ggcacaggaa gacacggtat catcacagct 180
 aggacatgca acgatatddd gattgctctt gctgccgtat aaccaataac tcacaagcgt 240
 cttattgaga aggagctcga aggatttgcc attatgttga aaaaaacacc acccactttg 300
 acttttataa caaaggacaa ggggtggaatc aactttctcat caacagtg 348

<210> 41558
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A6

<400> 41558

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 atcatctcct gatgtcgaca tatatgggtga tccaggtttt acatttccat atgttacacc 240
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 gtatatggat tctgataagc ttgcacctcc agttcgaatc atagttgctg atggagcaga 360
 ggatgtaact attaagatta gtgatgaagg tgggtggaata ccaaggagtg ggctctcaag 420
 gatttttacg tatctctata gtacagc 447

<210> 41559
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A7

<400> 41559

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 ccaaggtaaa cagcgaattc aaggaattgg atattgcaat tgtgaaggca accaaccatg 180
 ttgaatgcc tcccaaggaa cggcacgtca gaaaaatact cttggcgacc tcagcaaacc 240
 gccctcgcgc agacctctcg tactgcatat acgcattgtc aaggagattg tccaagacaa 300

agaactggat agttgcgctc aagacattga tagtggtgca taggcttctg agggagggcg 360
atcccatggt caaggaagag ttcttggcct actcatccag agggaaca 408

<210> 41560
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A8

<400> 41560

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atgctgctta ggtgtgatct atcctatcca tccatggata ataaagaagt ttgtggattg 180
ctgttttatt 190

<210> 41561
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-020-Q1-K1-A9

<400> 41561

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cagccaaggg aatagagggg aaggatggaa agttccttga tggatggggt atttttgcgg 180
aatacgctaa acccagacca ccaccggagg aaacagggat gaattcgcag cccagcagt 240
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gctcgcgtnc acgtctttca catgaaattg gtact 455

<210> 41562
<211> 423
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B1

<400> 41562

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tgtcgccgca ggccgagact gagtccaagg aggtcgaggt cgaggccgag gccgtagctg 360
aggctgagcc gaccgaggca gagcccaagg aagcagagcc cgaggccgccc gcgcccgcag 420
cag 423

<210> 41563

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B10

<400> 41563

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attctattta ttggcttact tgattttttt tgccctaaca ataagaaaac gcacgtgctg 420
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<210> 41564

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B11

<400> 41564

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gaagagtata aaaatatcgt tgtccaagct aaagaacaca tcttggtctg tgacattttt 240
caagcagttc taagccagcg cttggagaga cggacgttcg cggaccctt tgagatctac 300
cgtgcgttgc gcatcgtgaa tcttagccca tatatggcct atctacaggc acgaggctgt 360
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<210> 41565

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B12

<400> 41565

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cgtgtggaat ctttactatc aaaattacat tgcttcaacc tcccaacgct ttcttctggt 120
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caagcacttc taaaccatcg cttggataga cggacgttcg cagaccctt tgagatctac 300
cgtgcgttgc gcatcgtgaa tcttaaccaa tatatggcct atctacaggc acgaggctgt 360
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<210> 41566

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B2

<400> 41566

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tctgcaaggt ccgcgaggat ttcacacact acggagtcgg tgacgcgcgtc ctaaacgagc 120
 tccaggtctt ctgggagatg aaaatgctac actgtggcgc gatctcgggg aacatagacc 180
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 tgttccccgc gacaccattg cagaccccaa tccagactcc tctgccaggg acagacacag 360
 cgatgtacaa catacccact ggcccttcgg attatgcccc ctcaccgata agcgatgtca 420
 ggaat 425

<210> 41567
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B4

<400> 41567

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 tacctgaaca tatataaaac ctcttgTTTT gtgaaagcaa aggtgagtag acatcaacgt 180
 actcaccaaa cgttctgTTT agctaaagcg tactaacttt atgtgttgTg aagctccact 240
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 acccatgaac cgTTTTctta tcgatgaaca tcattatcat tctcgtatgc aaatccatta 360
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<210> 41568
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B5

<400> 41568

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actctagaac tgcaaagttc ttgcaaaggt cataagagag attcaatttc tccacaatat 180
 ttgaagccag ggactggtga atctcaactc tttcactgaa ggagtttgta tttggacaaa 240
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 tgtgtcggaa aagttcagct tggatgaat ttatccatgt cttccaataa ctatgggtcc 360
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<210> 41569
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B6

<400> 41569

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 tgctctcttt taatattaaa atgctgtcgt gcgtctctta tgtccctaatt tttcttcccc 180
 ttccttgctc cttcttttct tttttttatg gaccctttat ttcatttcac ttgccgtcgt 240
 tctaaacttt ccagactgtg aaaccctta cgtttctccc cttcttttct ttgtcatatt 300
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<210> 41570
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B7

<400> 41570

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 cgtcttctca tgcattggcg cagcgtacgg gaccgcgaag agcggcgtcg gcgtggcgtc 180
 gacgcgtgtg atgcggccgg tgctcgtcat gacgtccatc gtgcccgtgg tcatggctgg 240
 cgtgctcgtc atctacgggc tcatcatcgc cgtcatgac agcactggca tcaaccccaa 300

ggccaagccc tactaccttt ttgatggcta cgctcacctt tcgtccgggc ttgcctgtcg 360
ccttgctggg ctgcgagctg gcatggccat c 391

<210> 41571
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-B8

<400> 41571

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ttttgtgaaa gcaaggggtga gtacacatca acgtactcag caaatgttct gtttagctaa 180
ggtggactaa ctttatgtgg ggtgaagctc cagtagttgc ttttagtttg tcagatattt 240
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aacatcatta tcatcatcgt aggcaaacc ataaatagaa ccatagtatc ttgaaccatt 360
tgtatctcta atcaaagaag cttacaaggc tgctcataac cgtgagcacg actgatatat 420
cggttct 428

<210> 41572
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-020-Q1-K1-A4

<400> 41572

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gacgggtggg tcgtgccgcc ggccagcgac ggcggcaggt acaaccagtg ggcattccaag 180
aaccgttcc tcgtcggcga cgtcgtccac ttcaagtaca gcgaggactc ggtgctggtg 240
gtgacggagg ccgactacga cagctgccgc gcgtcgcacc ccgtcttctt ctccaacaac 300
ggagacacgg aggtgacgct ggaccgtccg ggccccgtct acttcatcag cggcgagacc 360
ggccactgcy agcgtggca gcgatggtc gtcagggtcg ccgncaggc cgcacccccg 420

ccg

423

<210> 41573
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-H1

<400> 41573

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ctcatcaaca caggctttgt cctgcccgtc cattccgagg actgctgggc cgacacccgc 180
gtcatctgca ccaagacgca caactgccgg gacgacactt gcgcggggcg cggcatgccg 240
gacggccgct gccactggga gttccccaac ctggtgcctt tctgccagtg cctgcgcccc 300
aactgccact agtccggggcg cctcggattg gctcacttcg ccggcgatga tggatggtgc 360
ccaactgcga ctgcccagtc tgctccaatt cgtgttggtt aaggcataat atataaactg 420
ccaaattcac atgt 434

<210> 41574
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-H10

<400> 41574

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ataaatcttg gagtcgtgtg gtggatacca acctggaatc accaaaggat attgtcccag 120
aaggggtgcc attcacaggt tcagggtaca ggattgctcc ctactcttcc atcttgettta 180
aagcaaagcc ttataatggc ggaggcaagt cattctcaag taagcacgaa taatggtgtt 240
gtgatcccta acttttcaag ctcttagcca actgtactgc aagtatagca aactttggta 300
tgtgaagtcg gaccaacctt tgcggaaatc aacggaagcc atggtttgct aaaggtatac 360
tcatggagaa ttggagatat ggcaaacaca 390

<210> 41575
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-H12

<400> 41575

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gaggtcaggg cggtacattc tgggacagca accctgaagg atgcaacttc agaggctatc 120
cgtgactggg tcacaaatgt ggagaccaca cactatatct tgggctctgt tgccggtccg 180
cacccgtagc cgatgatggg gagggagttc cataagggtta ttggcaagga aaccggagg 240
caggccatgg acaagtgggg tggcaagccg gacgtattgg ttgcctgcgt cggcggcgga 300
tcaaacgcca tgggcttatt ccatgagttt gttgaggatc aagatgtgag gctgggttga 360
gtggaagcaa ctggccatgg cgtaaacc gacaagca 398

<210> 41576
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-H2

<400> 41576

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agtaaacadg tctgaccggg caaagatgtc gtggcaggcg tacgtggacg agcacctgat 120
gtgcgagatc gagggccacc acctcgcgcc ggcggccatc gtcggccacg acggtgccgc 180
ctgggcgcag agcacggcgt tccccgagtt caagaccgag gacatggcca acatcatgaa 240
ggacttcgac gagccagggc acctcgcgcc gacaggcctg ttctcggac ctaccaagta 300
catggtcatc caaggcgagc ctggtgccgt catccgtggc aagaaggat c 351

<210> 41577
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-019-Q1-K1-H4

<400> 41577

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aaaggcgaca agtcagtgca gagaagatag tgcttgatct aacccttgta caggaacaga 180
gactgcaaag tctgaaggaa aggctaaatg taccttacga cgaaactcgg acggatcatc 240
aagattcgct tagggctcta tggaatgcct cctttcccga tacagagctc actagcttag 300
tttcggaaca gtggaaagac atggggtggc agggcgtaaa cccagcaact gatttcaggg 360
gcttgggatt tgnttcgctt gagaaacctt ttgtttttg 399

<210> 41578

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-H5

<400> 41578

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cctgctcatt gcgtccaccg atatggcaca ggcaagggaa tgcgagaagt acagtgagcg 180
at ttgttggg gcatgcatga tcgcagacaa ctgcgccaat gtgtgccgcg gtgagggctt 240
cttggccggc aggtgcagca ccttccgccg ccgctgcacg tgcactaggc agagctaaac 300
aagatcgctc gatcgctcgc catgcatcga caacctattc ttaataacgt tcattatctc 360
gttcttattt atgacgaatg tcatgtatgt tctggtgact gtcatgtata ttctgatgac 420
tgtcatgta 429

<210> 41579

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-H6

<400> 41579

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agaaatgttc aaaatgattg acagtgacaa cagtgggtcat atcacattgg aggaactaaa 120
 aactggcttg cagagagttg gtgctaattt gatggattcg gaaatcaatg ctctaattgga 180
 agctgcagat atcgacaaca gtggcacaat tgattacggg gagttcattg ctgcaacttt 240
 gcatataaac aaagttgaaa aggaggataa gctctttgct gcttttctcat actttgacaa 300
 agacggcagt ggttacataa ctcaagatga gtcctaaaag gcatgtgagg agtttggtt 360
 aggggatacc cgacttgagg acattattgg ggacatcgat caagacaatg atggacgaat 420
 cgactacaat gagttcg 437

<210> 41580
 <211> 397
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-019-Q1-K1-H7
 <400> 41580

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 atttattaca cccattaact aataacagct aactggaaac cttactcctc ggaccactat 120
 attcaggagc tacgaaatga tccactcgcc agccatggag acgaacaaag taatctgctc 180
 cgatgtagtc gtcgccgtct ataccaccga cacgtcggcc atagtcgatt tcgaggcgcc 240
 ctcttaggcg cctgatgag catccggaga ttcggttggc cctagaacaa gcggtgccgt 300
 cgccgacgac gtggccgccc gctgagcgtc tgtaagctta ttactgggct actacctaca 360
 ctgagcgact acacgcgggg cggaacgtc gggatgc 397

<210> 41581
 <211> 229
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-019-Q1-K1-H9
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 ctgtcgctac tatttttagg aatcaagatg agccgcgggtg agcagtgcag atggtgatca 120
 aagttctcag aagtatagtg tatggaagag gtgagctgat caaaccagca gtcacaccaa 180

ctgcatgtgc tgcattctgtt gagagaccat ctgatgtaaa gactgatgc 229

<210> 41582
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A1

<400> 41582

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gcgcccggcgc atcacogtca tccacatcgg cctcgcagtg acggtcagtc gctgttaagc 180
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tagtctgcaa accatcacga tagcaatatt gttctgctgc tcttcagctg aggatgctgc 360
cctgtcctga actcctgatt ttgcttttga tctactatgt gatgatttgc tcttc 415

<210> 41583
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A10

<400> 41583

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tctggcaggg aaaaaaagac ctgcccttgt tgcagcggtg ttgttttagaa tgacctatat 120
ttgactggta ttctgttacg gtggctttgc aaagctgttt gtttggttt 169

<210> 41584
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A12

<400> 41584

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 agcagatgag gatgttgaa agattgcact agcagttcct gttttagttt cgaggtctct 180
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 cctaactgaa gttgtcagca aggtaccaga tcttggtggc gctgattcct gtggagatga 360
 aagaggatta cctagaggaa gaaagtcaaa tggcgtgacc cagagaatga tgaatcaaga 420
 tctagtaaaa 430

<210> 41585
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A3

<400> 41585

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 aaaggacaag ggtggaatca acttcacata aacagtgacg aacacacatt ttgaccttga 360
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 tgat 424

<210> 41586
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E5

<400> 41586

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ggacgttgac attggatctt cggcggtagc aaatggagta ttgggtcttg cttttggtgt 180
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 tcctgatctt aacaacacat taaatgacag tagcaac 337

<210> 41587
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E7

<400> 41587

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 cccacgtcac actggcgtga tggttggcat ggggcagaag gatgcgtatg ttggcgatga 180
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 gcctgaagag caccctgtgc tgctgaccga agccccactc aacccaaagg ctaacaggga 360
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<210> 41588
 <211> 178
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E8

<400> 41588

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 ttctttgaac ataacttgtt tcttgggtgg catgggttta caaaatttcc atagcaaa 178

<210> 41589
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E9

<400> 41589

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aatctgtcac tcttgcaacc caaactgcta agcacaagtg acagcagga atggtaaata 180
ccatattgga gtatacacac ttcgaccaat tgcacaacgc gaggaatca cttctgatta 240
caactgtgta actgacatca aacaagagca tgaagcatta ctctgacttt gtggaaatca 300
agtatgcat cacagccatt t 321

<210> 41590

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-F1

<400> 41590

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atgataaagg tgatacatgg tgtctaggca ccacataaac atatctgtga ttatgatgga 300
ccctttaata tagaacaaaa gttttggctc atttgagcta ccagcgtacc agtaggcaat 360
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<210> 41591

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-F11

<400> 41591

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accgcaaatt ggctgatagc tcgcatgcga aaaatgaggc tcggaaggaa ctgcttgaag 120

tgatggccca caggtctcat gttgacagca gcgttgagct cattggaagc cttctctttg 180
gctccgagga cgggtccaagg gttctgaaag ccgtccgtgc acctggtgaa cctctgggtg 240
atgattggag ctgcctcaag tccatagttc gcacttttga ggcgcgatgc gggtccttgg 300
cgcagtatgg gatgaagcac atgcgatc 328

<210> 41592
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-019-Q1-K1-F6

<400> 41592

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caccgcagga gcgagatgga gatgaagagg atcctcttcg ccgtcctcgt cgtcatcgcc 180
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t 421

<210> 41593
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-F8

<400> 41593

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tttcgcggcc accgccgagg cccgcgttgt ccccgagctg tttggcgagg accaattcca 240
gcggacatgc aaccaggtgc acttcaggaa gatgtgccag agcttgacga ggctcccgag 300

ggtgacaacg ccgcgcgaac tgctgctagc gtcgatgcgc gtcgcggcgg agaaggccag 360
ggaggccaag agccgggtgg acgagttcgc ggcg 394

<210> 41594
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-F9

<400> 41594

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cgagatggac cggctgatcc atgaacatgc ggaacaggctc cggcgcgcgc tggccgacac 180
tcgtcggcgg cactaccgat cgctggtcgg cgcggtgac gcggtgctg ctcaacgggt 240
aaaggagaag g 251

<210> 41595
<211> 364
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-019-Q1-K1-G1

<400> 41595

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gtcaacctga acgcgtcgat gccgccgtcg gagaggttca tcgtgcacat gctcgaccct 240
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agggaccaga acagctacta gaagccgcag tagtggagga tctaccgagt tctacactcc 360
tacc 364

<210> 41596
<211> 315
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-G11

<400> 41596

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aacctgctgc acaccacgag ccagcacacc gatccagggtg tacacgggga cattgacgac 180

aatcatgctc acgttcgact actccggcat gtggaacgtg cattacaaca tctagctgcg 240

gtactacctc tgcgtgcact tctacatgag cgtgatctca ctggggcaat cactgaacgt 300

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<210> 41597

<211> 309

<212> DNA

<213> Zea mays

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<400> 41597

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acttcattgg atatgctaag attgaccata gtctcgcaaa attctggact atcttttagc 180

aataacatga agattccaat tgtcaaattg aacatatgga acttaagcat tgaattcaaa 240

aactgggcct tgaatcgacc gatcaggata tcaaagatgt gtttcaagca tttgacatat 300

attaacaca 309

<210> 41598

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-G2

<400> 41598

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gagcgcagac caccgtgatg acgacggcca ccaccaccag cgccaccgcg gccagagctg 180
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gcagtgcgtg acaagctgcg ggtctggggt cacctcctgc atgctggact gctaccagcc 300
gctggtcgac ctggaccccc tggagctgcc cgtctgcctc ctcaagtga ccaacgacgc 360
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<210> 41599

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E4

<400> 41599

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tgaatgtttg gagaacaatg gtggttgctg gttagacaag gctaccaatg tttctgcgtg 180
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cggatgatgg tacaaccact gtgaagcttc tggccttggt aggtgccaga tcaacaatgg 300
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taaaggctgc aagtgccag caagtttcaa gggcga 396

<210> 41600

<211> 433

<212> DNA

<213> Zea mays

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<400> 41600

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cggacaccgc ccacctcagt aataatgaaa atgggcgggt catttatgga gttgcgagtt 180
ctctggtaa aagagcatcg atggaggact tctatgaggc aagaatagac gacgttgatg 240

gagagaaaat tggaatgttc ggtgtatatg atggtcatgg aggagtccga gcagctgagt 300
atgttaagca gcaccttttc agcaatttaa tcaaacaccc aaagttcatc actgatacca 360
aggctgctat cgccgaaact tacaacctta cagattcagg atttctgaaa gctgatagct 420
gtcaaactcg aga 433

<210> 41601
<211> 414
<212> DNA
<213> Zea mays
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<400> 41601

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gtaggcgcg taccgagctt cgccgtgatg atttgcagtc cagtggggccc ataatttctc 180
gccggaccgc gagcagcaac aacctctact cgccggccat gacctctacg cactccaagc 240
tctcctccga ggaccgtcat ctctgtgcat gtagtcgagt aaggtcacga ggatctgaag 300
aatcaccttg gtatctggaa tctcaagtgc taggagaaga gcaggtgggt caccaggagc 360
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<210> 41602
<211> 196
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-019-Q1-K1-C8
<400> 41602

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tagcggcatc ctaacaacaa cgacccatgg cgtatcatgc atcgaactgc caagtggcag 120
cacccaaggg gttgcactca agtgagactt gcgatgccct tctagactcc tcgcaatcga 180
tctgagccgc atctct 196

<210> 41603
<211> 268
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C9

<400> 41603

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gcatgatcgc gggctccatc cttgatactc tcatcgccgc cctttcctac atgccccga 120
aagtaccacc cttcacaaaa catcaccacc aacaacaacg gcaagtatct caccactaag 180
cccacatga accgtcagac taaccatacc gtcgctcttg acaaccaccc tcacctgggt 240
atcaagaacg ggaacctgcc accctaca 268

<210> 41604

<211> 358

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-019-Q1-K1-D1

<400> 41604

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gatgagccag ggcattgtac cgggcgactc ggactcggag ggcgaccagg gaaccgcgcg 120
gcgtaggatg tcttttgtca tgggcgtttt caccactctt gctaaccgga agcggagaga 180
ttcaataagg cagacgtgga tgccacaggg tgatcagttg cgaagattgg aagacaaggg 240
cgttgttatc cgttttgttg ttggacgcag tgcanatcca aacctggaaa atgaggtcga 300
ccatgcaatt gatatggagg atgaagaata cggtgatatt ttgagaattt atcatgtg 358

<210> 41605

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-D10

<400> 41605

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gtggccgccc cctacgagaa ggccgcgggc gccgtcatcg tggcgacgcc ggacaacaag 180

ctccgcgcta tggcggttcgc gttcgacggc gcggtggcgc cggaccgga ccggtgcccc 240
gccgtcgaca agcccttctg cgagacctac gccaaagacgg agaaggcctt cagcggaacc 300
atcgacttcg gtgacacgcg caagagcaag ctggtgatca c 341

<210> 41606
<211> 387
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-019-Q1-K1-D2
<400> 41606

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cgagcatggg agaccggcat cagcatgggc ctggcagcgg cgtggaggac ccggcgacgc 120
tgctgcggcg ggtgcagacc cgcgcgcca actcgacgca ggtgggtggg ttcttgacgc 180
tgctcgtctc tggcgccgtg ctgctgctgc tgacgggggt gacgctgacg ggcgccgcgg 240
tggcgctcgt ctctctgggc cccatcggc tgctcaccag ccccatctgg gtgcccgtcg 300
ccgtcgagat ctccgncatc gtgcgcgcg cgctcttcgg ctgcgccttc ggcggcgtcg 360
tgctccccgt gggcacctgg atgtacc 387

<210> 41607
<211> 416
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-019-Q1-K1-D4
<400> 41607

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ggcgccgtca acccgaggt cgccggcatc tgctctcgca cccggttccc ggaggtgtgc 180
acgtccaccg acggggcgga cgcgtacaag taccgggtca tcgacaacct ggccgtgctg 240
aacatgcagg tggacgcgtt cgccaagcgc accgcgcagg cgcgcaagca cgtcgcgagg 300
tcggcccgca ccatcccgcc gcagcagacg caggcgctca cgttctgcga caccatgtac 360

atgaacacgc aggacaccat cggcgcagcg cagcgggccca ttacgttcaa ggacac 416

<210> 41608
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-D6

<400> 41608

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aacacactat cgagaaccaa gggtttatac caagggtatt aaagagggcc attcatttga 180
tcaagatgga gggtcgttg aactttctct agtgacctgt aaatgcattg gggcttatgt 240
caaaaacaag aagaatcaaa accagatatg ctgggttatgg gaaaaggtaa aatcaacaga 300
agacagagat tttcaaagat tcctggacaa cgtgcaatac aaaacaagtg ggatattacg 360
ttatgagcgt gtctttggtg aacgttttgt gagcactggt ggaatcgaga ctacaaagga 420
atttgtgg 428

<210> 41609
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E1

<400> 41609

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gatgcctcgc tccggcggcg gatccaccgc catgtccaag agcaagctct ctgacgcaga 120
atcagaaaact gacagcgaag aatcagatgt gagtggttct gatggggaag atacttcgtg 180
gatttcatgg ttctgtagct taaagggcaa tgaatttttc tgtgaggttg atgatgacta 240
catacaagat gatttcaacc tctgtgggct aagcaaccaa gttccatatt atgactatgc 300
acttgatctg atattagatg ttgaatcttc ccatggtgat atgttgacag aagagcaaaa 360
tgaacttatt gaatcagctg ctgagatgct ctatggattg attcatgttc ggtatattat 420

<210> 41610

<211> 115
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E10

<400> 41610

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tcgccttggt ttgagatctg taagcagttc ttttatccac aaacaagttg gtact 115

<210> 41611
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E11

<400> 41611

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tccaacccgt accacaagt cactgactac tgctccgca ggatcgccga ggccagccag 180

ggccttacct acaagctcct caactcgtgg aaccgcccgc ccagagcacc gtaccgtcca 240

ccggaactgc ataaaccctt gcaaccctta ccacgagtgc tccgactact gctacaagcg 300

cat 303

<210> 41612
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E2

<400> 41612

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gcgacatcgt gctgatggaa atccaggaca agttgtcggc tgagtgggaag cccatgaagc 120

tctcttgggg cgccatctgg aggatggaca ctgccaaggc gctcaagggc cccttctcca 180

tccgcctcac cagcgagtcg ggcaagaagg tcatcgccaa agacgtcatc ccggcgaact 240

ggagacccga tgccgtctac acttccaacg tccaattcta ctagactttg aattcccttc 300

gattcatccg gcacagcggg ctatggacct tcagcagcaa gctaattaag ttggcagcat 360
gcaccgctaa ccttatatac tactgagact tccaaattct agtatatgta atcctttttg 419

<210> 41613
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-E3

<400> 41613

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taattgttgg ggttgtggtt ggtgcagcag ttttaggagt actagcactt gctggaatct 120
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ccaataacct tcttgggtgaa ggaggatatg ggtcagttta taagggtaaa ttagctgatg 300
gaaaggtggt ggctgtaaaa cagttatctg aaacatctca tcagggaaaa cagcaatttg 360
cagccgaaat agaaactatt tctcgagtgc aac 393

<210> 41614
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C4

<400> 41614

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gaagcgcacg agggaccctg gcttccaggt gaagccgcgg cccacacctgt cgaaggacat 360
catggacatg ggcaagccgg cgtccgagct cgtgaagctg aacaccacca gcgagtacgc 420
cccggggc 428

<210> 41615
 <211> 257
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B1

<400> 41615

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 tcaaaacacc tggcctgtaa tagataatta ggtgaacttg ttcttattat gctactactc 120
 gtttcattat gccgtgaatc ctctttatgc taagctttat gtatattggt actgtatcat 180
 ttgggatcta ctattcaaaa aataataaaa agggcaaaaa agatcaataa aatggatc 240
 aagctgagtg tccatga 257

<210> 41616
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B10

<400> 41616

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 gcccgaacccc ggcgttcgac agcccgccgc cggagacggt ggccaacaag gcaggcgggg 180
 ggccctgttg gagagagctc ctggagcccg gtgtcaggcg cgcgctcttc tgtggcgta 240
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 tccttgacca ggccggtgtg agcgt 325

<210> 41617
 <211> 163
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B11

<400> 41617

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tggccaggca taatagagtg attctatcag atacgatgag aattatctac ttgtttgtac 120
tggacgcttg cccacaagag ctcgagatta ccggttaatt aaa 163

<210> 41618
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B2

<400> 41618

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caccgaggcg gctgccccatg atgtcatgct gttcaccttc tccaaatgct ccggccatgc 180
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gttcatggag ctccaccaga ttggcgtgtc caaggactct cagcttcgtg ccgctaagat 300
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ccacctcttc cattttgtctc gggagaaaat ggcggcac 398

<210> 41619
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B3

<400> 41619

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tgatagatca atgcatcttt gtgttaaaaa tagatagatc aatacatctg tatatatgct 360
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attagag 427

<210> 41620
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B4

<400> 41620

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caaattctag tatatgtaat ccttttggtc ggggttcatga tcgaattcca aagagtggaa 240
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tttcgatata tggaccacta aatatacata tcattttactt tcct 344

<210> 41621
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B5

<400> 41621

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gtggatgggt tctcggtgg gctggctgac gatagtaacg tattcgagtg gcaggtcacc 180
atcatcggcc cgcccgatac cctatatgat ggaggggtact tcaatgcaat aatgagcttc 240
ccagaaaatt acccaaacag cccgccatca gtcagattta cctctgaaat gtggcatcca 300
aatgtttatt cagatggggt ggtgtgtatc tctattcttc atccacctgg tgaagatcca 360
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ctgagc 426

<210> 41622
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-019-Q1-K1-B6

<400> 41622

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gacagggtga gctacgcagg tacaggaggg accacccggtt cgcgcagctc tccgggtccg 180
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gagacacact gccatgcatg atgcctnccc tacgtgtttg ggctatgctc acatgttgta 420
at 422

<210> 41623
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-019-Q1-K1-B7

<400> 41623

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cacacaaatg ttatactgat caactgtaac ttangtcata gtaggagagc tttagcagag 360
gaatgtgtat ccaggattga tgaatttcag aaacatgata ttctgaagg cacatatatg 420
ca 422

<210> 41624
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-B9

<400> 41624

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cccgcgtcga agcacacgct ctctccgctc cagctccaca gtccagcggg gcttggccac 360
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<210> 41625

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C1

<400> 41625

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tggagcgtc attggcatca taaatcctgg gaggatgact ttgtttggta cccttttgat 180
tatctgggggt atggtgaaag aagcactatt tgggaagcca gtgaacagtg atctgactca 240
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ttacaacgta aagaagacag caagaagtag tactcctgtt tctatcgcta agccactgat 360
aagttctgcc aagtcaaaac tgaagtagac ttacaagttt aatccttgta actcttttga 420
aatatttatt 430

<210> 41626

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C10

<400> 41626

gcgtgagatc gaggagaaga aggcaagctt gcagagaaag agagagagag agagagatgg 60
atgaggagta cgacgtgatc gtgttgggga cggggctcaa ggagtgcac atcagcggcc 120
tcctctccgt cgatggcctc aaggtcctta acatggacag gaatgactac tacggaggag 180
aatcttcgtc cctgaatcta accaagctct ggaacagggt caagggcaac gacagccttc 240
ccgagcacct gggcgtcagc aaagagtaca acgtcgacat ggtgcccaag ttcgatgatg 300
c 301

<210> 41627

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C11

<400> 41627

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caggggaggt ttaaaccatg aatgggacgt tactgattgt gaatgctttg actgcacct 120
gtagcaacct gatagctctt ggccattagg cgccataccc atcatatggc aatacatact 180
gatttgagtt ccaaaatgca cttgaaaaac ttacaagcta catattctac aagagctatc 240
atatgataga ttatgatcta ccacaacgaa tcattgcata cttctataaa g 291

<210> 41628

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C12

<400> 41628

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gtgccaaagg accagctgct gcagccaccg aggggcctgc tgccgggagcg cccatgacat 120
ggccggatgg cggacctgag ttcgtcaaga tggatcatca gaacccttc tttaaagcg 180
caccttcac tggtagegaa gacggcctac ccattgaccc cactccagaa ggcagcatga 240
actaaattaa ataccaatta cgagaccgac cagatatgca tggagcatgc aagaatgttg 300

tcgaacgaat atatgctatg aatgggttaca tgtactggct acatttagtt caacttaaat 360
tctct 365

<210> 41629
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C2

<400> 41629

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ccgtcctcct tgagaccttg cctccccgag tgctctcggt gagctacttt gtttcgattt 120
atcaggaaat ccgtttgctt catgttggtc aggtcatat ctgattgctg gattcggcaa 180
accgcggttg gatcctgtat cgatctggag aaatcgcgaa gtcgtcgtcg ttcggttcgg 240
agcggatctg aggcgacgat agatggaggc ggcggcatct ctcggtctgc agtcctgctc 300
cacctcgatg gatgatgtct ctgcgctgat aattattgga tcaatttcga taattattag 360
tagatctatg agatatgccg cctggaagag gcgaagtaag ctgcagcatg taaaaaagag 420
aaaaaaga 428

<210> 41630
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A9

<400> 41630

ccgacgcaat cgctccaac gctgttttt agtcagctca ccatcaaac ctataggggg 60
gcaccaccgg ctccagtgg ctcaccacct tctatggcgc aatgacctcc accacctgct 120
ccagtcagct cactatcage acctgagaca tcacctcctt cagcgctcc agttagctca 180
gcaccacctg ctgtgaaata ctcttgacca cctactacag gcaactaacc gtcaccacct 240
gataaagtac ctctgcact agcttcaatg gttttaccat cgtgtaccat gaaataccc 299

<210> 41631
<211> 397
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-C3

<400> 41631

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ctataactta caatatccaa tacatgtaag aaaaggcaag tattggatat tgtaagttat 120
agctggcagt ttcaaatact tgccttttct tacatgtatt tttcttacag gtcttcattg 180
aagtagccct tetaactgat gtgtcactct tgatcaacaa gattttgaat gcttttgtaa 240
cttgtttcaa accatgcttg ttcctttgat agccattagt caagatgtat ccttaatggg 300
agtgaataga cccactcatc ttataaccta caaactcttt tggagcagag cgctccagta 360
ttatcgcgga gctgaagcac ttgagtata atatttt 397

<210> 41632

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-H4

<400> 41632

cggtcctcc ctcggtcctt cccgggtctcg cagttcctcc ccgtcgtctt ccaccgcaga 60
tcgccgaagc aagcaggcga gctcgggacc agatccactg cgggcagctg gagcggaagg 120
gccatgggga cgccgcgcgc tttccaggag tccggccact gcgacgtctg ccgctgcacc 180
ttcaacacct tccgcgcgcg tcatcactgc cgcagctgcg gacggacgct ctgtcacgag 240
cattcttcgt actacatggc tctccgcag tatgggatat atacagacgt cagagtctgc 300
tacggttgct tcaacaaatc cttcagccaa ggacacgctg ataatccggt gtcagctggt 360
agcatttctg gagcagctga ctctttttca gggctgagtt tgggtaagga gga 413

<210> 41633

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-018-Q1-K1-H6

<400> 41633

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 ggacgagatc tgcgaggtgc tgctgctcaa gagccccgag gcggactgcg ccgagatcga 120
 gcgcacccgc gaccgctgcc gcgtcccgct caccgcgaac gacggcatca ggcagagcgg 180
 catccgatac gccaacccca tcgccttctt ccgcaaggag cctctcagca actgtggcga 240
 gtccttgcg gcttacgacc tcttcaacga gacgtccgag aattcctaag cgtcattttg 300
 ttnttttttt ttaatttctt ctgccatagc acatttggtc gactgatcga cgttatatta 360
 gcagacgtgc agctatccta aaaataaaaa taattttcat ctccaatggt ttagtagcta 420
 ccatattaat atatatta 438

<210> 41634
 <211> 323
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-018-Q1-K1-H7
 <400> 41634

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 tgggtgtcctc gtctctgtgc ccctctctgt cccaatcaaa ctgatcgatc cgtcgctgctc 120
 agggccacag cagccgcggc gaggtcgtcc gtcggattcg gaagctcagt tattactgaa 180
 aagataatac agtacctatg gcttctctgg acgccgtgcg aggagacctc gccctgctga 240
 ttctgtacct gaacaaggcc gaggcgcggg acaagatctg ccgagcgatc cagtacgggt 300
 ccaagttcat cagcaacggc gag 323

<210> 41635
 <211> 310
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-018-Q1-K1-H8
 <400> 41635

gtgagagact gagggcctat tctttccttc tcaaactcaa attcttcttg gaatgcagga 60
 aagccctgcc tcccctgtac tgattctgaa agtggacttc catctgcacg tcggttgatc 120
 tattctactt tgctgagttg gactacatta cctccatgtc gagactgcga gctctgtggc 180

aagcttttctt taacgccaca aagagagctc tcgtatggac ttcagatcat ctaattccga 240
 caagtgaaag atgtatcttc aatttcaaca cagaagatga gctgacaaag cggcatttgt 300
 actcagattc 310

<210> 41636
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A1

<400> 41636

ccaagacgcg tgcagtcctt ttgagcctat ctacgatgag accgatgggg ctgatgggga 60
 tgtctccgtg gaggtgtctc ctaggttggc aaatgacact caaggaactg ttgaggcggc 120
 aaagtgggta cacaaagtgg tcaaccgccc caatgtctac ataaagatcc ctgctaccgc 180
 cgaatgtggt ccttccatcc gggaagtatt cgctaattggc attagcgtca acgtcacgct 240
 tattttctct attgcgacat acgaggctgt gattgatgct taccttgatg ggctagaggc 300
 tttcggggtt gagcgactta tctcgagtta ccagtgtcgc atccttcttt 350

<210> 41637
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A2

<400> 41637

gaccatagag gtcagcatgg gctcgacgca tggtcagggtg gaacataggc ataagattgc 60
 caagatgaaa gacgggtaca gcaatgcgcc tgacttgag gacctgttct taatgctcaa 120
 tgtgggttca gcttgcaatt ggacactgta caccagggtc cggatacagt acgaagctca 180
 catccgctat gactccacat gtagccgata acagtatctg gatcatgata gccgctccga 240
 cttccatgac taccataact acgtgatgaa taaaaagata tggtgatact gctaagcatg 300
 aggacacatg gactggccag tccac 325

<210> 41638
 <211> 287

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A3

<400> 41638

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 ttccggcattg caagtgggtc gacgagggtc taccagacgc tccatgggtg atcaaccagg 120
 agttcatcga caagcacaa acgactacg tcgctcacga cgcgctccca tatgctgaca 180
 cgagtggagc tgccaacgat gtctacgaat tcgtgaaatc cattgggaag ttcaaggaga 240
 cgaagcgcac cgagggcatc tcgacgtcgg acatcatcat gaggatc 287

<210> 41639
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A4

<400> 41639

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 acctcctcca ccccgagggc cgtcaacctg ctctgctctg ccaagatccc atgcaccggc 120
 gtcaccatgg acgacgtcaa catcaagtac agtggcacca acaacaagac catggccgta 180
 tgcaagaacg ctaagggcag cgccaagggt tgccctcaagg agctcgcgatg cttctagaac 240
 caccatcgac ccattctctt agttatacaa tgtgtttggt tgttggtatgc tgagagattg 300
 gttctcagct cagatgcaag ctgcgcctag cctgtgtagg tttgtgctgg tacattgaga 360
 gctcttattt atttgctttg attgcaatta accaggatga ccatagcccc ttggt 415

<210> 41640
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A5

<400> 41640

aatatctccc ctcccttccc tcttctggtc tccgccccgc tccttgcttc cgagcccgaa 60
 ttctccttc ggatctcgca ttcagcgcag cgcaggtgtg aaggaagggg gacgcggagg 120

aagatggggc tcgcgttcgg gaagctcttc agccggctct tcgccaagaa ggagatgcgg 180
 atcctcatgg tcggcctega cgccgccggt aaaaccacca tcctctacaa gctcaagctc 240
 ggcgagatcg tcaccaccat cccaccatc ggtttcaatg ttgaaactgt tgagtacaag 300
 aacattagct tcaactgtctg gcatgtcggc ggtcaggaca agatcagacc tcttgag 358

<210> 41641
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A6

<400> 41641

acagctggaa tgcattgtga cgacgattgt ttcgagtttc gacttccaat aagagtaaca 60
 acaaagcaaa ggccttcttc ccggcgattt tgctttggct cttctctctc acgccataag 120
 atatctagca attgggtcact cgccttaatt agttcgcttt gcttttgagg ttgattcgac 180
 cattttgctg taacgtgaat tgcattgcatt gacatgcaac gctccaatgg cctttggaat 240
 gtggaatttt tttccccatt ttatgtattt ttcctataaa aaatgaactg gttcttatat 300
 aattcctctc agatccctgc tgttcaaatg atatgaaagc agatactata ttctgtgctg 360
 ataaaaaaaa aagcgtggaa tta 383

<210> 41642
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A7

<400> 41642

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 atcttcttag tacttgtctt acatggagat acaactttgg cagaaacttg cagacaattt 120
 gttaaattgg atccattctg ctttagtgca atgtgcaagg caagttgttt tatagaggga 180
 aaatcctccg atgggttcta tgtaaagggg cacagatgtg aatcaaatgg atatcatgct 240
 gtgtgtgttt gctttctgtg taaaaattag gtatctaatt acatgcgaat ctatcttctt 300
 ttgatcctct ccgacatcta ggagtgttgt ctaaataatt atatggtaaa atagttaact 360

agtatgtata ctattagagt tatgtagcac tagttaacta gtcggtattt cttca 415

<210> 41643
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-H2

<400> 41643

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tggcatgact cacattgtcc gtgagggtga gaagccagga tccaaactcc ataagaagga 120
aacttgtgag gctgttacca tcattgaaac cctcctctt gtcattgttg ggctcgtggc 180
atatgtgaag actcctcgtg gcctccgcac actcaactct gtttgggccc aacatcttag 240
cgaagaagtg aggagaaggt tctacaagaa ctggtgcaag agcaagaaga aggctttcac 300
aaagtatgct ctcaaatatg aaaatgatgc tggcaagaaa gaaattcagc tgcagcttga 360
gaagatgaag aaatatgctt ctggttatccg tgtcattgct catacccaga 410

<210> 41644
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F6

<400> 41644

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gtattagtaa ctttgatggt caaggaacac ttgctcttca ggttcttaat gatactgatg 120
ggttcacca tttgcagatt gaaagccaag atatgcctgg gcttagcttc aaaacacacc 180
caaatatcaa taaggatttg tttaacagtc agcaaatttt gggagcaaaa gatccaaaca 240
ggccctttcc gagtgggtcaa aatgaaactc ctctggtgaa atggagaatc caggggatgg 300
atgagtcgtc tttacctctg tcagtcaatt gctggccgtc agtatctgga aatgaaacct 360
atgtgaacat tgaatatgaa gcttctgaga tgtttgatct gcacaacgtt gtcatatcta 420
ta 422

<210> 41645
<211> 186
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F7

<400> 41645

catgcacttt caccattcac atatttcatt tacaccaatc atcttcacaa aagagcgcat 60
gatcctataa actttgacct ggaaacact cttattatta aacctcttac tcatactcat 120
agcactatct actttcacca ataaatccaa cacatcccat ttctaacctt ctcaacacac 180
tcaaat 186

<210> 41646
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F8

<400> 41646

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gatatcaaat acaggtgggt ttatgatatc aatggggcat tttgaagctg aaaactctgc 120
taacctactt acctgcaact aacaaaaggt cacctatata tcaggaaaaa agaaagcaaa 180
gcctgtagtg tgtcgctaat ctataccatg gagcaaaagg acattgcagt atgcctgcc 240
cttaattgtg ctgcgtataa actatccaac gtattagggtc gtgctgtaaa caatgtagaa 300
ctgtacctgc tggacgggta ccatgtatat aaagatgaag tgtttaactg atgtgaagat 360
tgatggatat agtacgtcct ctctttgcc aagcgtgtt gcaaatagtg cttttgcaat 420
atatcccaat ggaca 435

<210> 41647
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F9

<400> 41647

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gcgtgggtat ttgtaccatt gcgacatcac actgctagcc atgttctgta tcctgttggtg 120
 tggtaactgg gaaacattaa atattgacat accgttttga tttttt 166

<210> 41648
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G1

<400> 41648

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 cacgtaaacc aactcgatcg atcgcgtgcg actgcgagcc gtccgtccgt catggcggac 120
 gtgctgggtg gctccgagcg ccgtgtcctc atcagcggct acgggtacgg actttccccg 180
 cagccccgc ccccgccgtc gccggcagag agccagctgc tcggtcgcct cgatcacatc 240
 gatctacggc tgccgcagct ggaggagcag catcagcgcc gtccgttgca cgccgacccg 300
 gtcccgggtca cggccctacg agcgcggcg gcgcaggacc agcaca 346

<210> 41649
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G11

<400> 41649

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 ttgattagct caatagccag aaacacagaa ggccaacaag cagtacaagc cgttgacgca 180
 ccagatggcc ctccaaaat ggctaattga aatgataaga atcatgattc tcatatcgaa 240
 gtgacacccc atgagttggg tttgaagaga tcgagaacaa atggagctac agcgggaaat 300
 ccatgatgag cgaattattc tgaaaggatc aaatcagtca agccttaaca 350

<210> 41650
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G12

<400> 41650

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ccatagggat ggtttacgct ttggacgcaa ggttggtcag ccagtggaaa atggtggact 120
ggtcgaatac ttctttggca aggatgggaa tgaacatcta cactatgata agttctctag 180
ttttttgaag aaattgcatg atgagattgt ccgcttggag tttagtact acgatgtgaa 240
atcatccaac acaatacctg ttaaggactt tgcgttatcc atggttgctt ctgctgatat 300
gatttacata gacaagttac tggatagagt tgaggatttg gacgacaatc ttgacctcaa 360
ggatctgcgt a 371

<210> 41651

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G2

<400> 41651

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ataactgaga agttttcagt tgctgcaggc gctcgaagca tcactactga ttacgcgaag 120
ctagattgtg taacatcaat cttaatgggt cttttatcta ggaaccaatc cttggctttt 180
tggaaggctt tccttctgtt ggtctacaat atatttaatg ttcattggtgc aacactaatg 240
gcaagggaga atgaccgctt cttgaagcaa attgcttttc atcttttgcg gcttgctgtt 300
ttccgaaacg attcgattag aaaaagagct gttgttgggc tgcagattct tgtaggaac 360
tcattcaact atttcaaaaa cactacaagg ttaaggggtca tggtgacaat tactttgtcc 420
gagttgatgt ccgacgtgc 439

<210> 41652

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G4

<400> 41652

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 taattggatc gagattctac gcgtggataa cctgggtcatc accggcaagg gaaaccttga 180
 cgggcagggc ccagctgtgt ggagcaagaa ctctgcacc aagaagtacg actgcaagat 240
 ccttcccaac tcgctggtga tggacttcgt gaacaacggg gaggtgtccg gggtcacgct 300
 gctcaactcc aagttcttcc acatgaacat gtaccggtgc aaggacatgc tgatcaagga 360
 cgtgaccgtg acggcgcccc gggacagccc caacacggat ggcattcaca tgggc 415

<210> 41653
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-018-Q1-K1-G5
 <400> 41653

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 tcagccatca gggtgccccat ctgagtctgt tattagtagg aggaggtttg agttcatgag 120
 aaagagggcc tttgaccagg aaagctcttc cagatcagtg aacttaagct taggtcattc 180
 aactcctaca gatattcgca gaatcagaat gaatgaacaa tcactttgtc aacaaatacc 240
 acgaagcagc agcagaagcc atcaggaatc ggcaggttca gttaggacaa gacgaccttc 300
 tcctcatgcc actaggatga gtgttctga tggaagagca gatggcgtgc tttctctgca 360
 cgagt 365

<210> 41654
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-018-Q1-K1-G6
 <400> 41654

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 gctgataaat ttcagttgat gcaactagct aactagatgc aatactgatt acacgtatac 120
 tggatcgagg cacatcaacc ttaatgggcc tcttatgtac gaaccaatgc ttgacttatt 180

ggaacgctat ggttcctgtg gtctaaacta tatttaatgg aaatcgtgca acactcatag 240
 ctaaggagaa tgaccgctta ttgaagcata ttgattttca tcttttgca ataggctgtt 300
 tccgaaacga tttgattaga aaaagaactg ttgatgggct acagattctt cgtatgaact 360
 cattcaacta ttgcaaaaac actacaaggt 390

<210> 41655
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G7

<400> 41655

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 tgaatgaacc atgcatgcat gcatgtatgc atgcgccggg gtgacgtggc gttcagctca 180
 ggcgctgagc gagtctatac gtacgtcgtc accggtggc cacgcatgcg ataaccatct 240
 gatatggagc gaactatata ttgtattcct attaactctg cattttctaa gctaattgtt 300
 ttttttccaa atataccgtc gatggaactc caaatgtaat gtcacgcaa tgtgtgtttt 360
 tcatcgattg aatggattat aataaaaagc atgctggcag gtactact 408

<210> 41656
 <211> 276
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-018-Q1-K1-G8

<400> 41656

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 ctcgtggcca cggccatagc cgccgctccc ggcgttgggt ttgtcgtcac cggccgcac 120
 tactgcgaca actgccgcgc cgggttcgag aaaaacgtgt cccacgccat ccaaggcgcg 180
 acggtggaga tggagtgccg nacttcgag tcgcagcaag tccacgaaa ggcggaagcg 240
 acgacgggcc cgggcggctg gtacaagatg gagatc 276

<210> 41657
<211> 58
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G9

<400> 41657

gtggactgtà gagagcacac gatttacatg tacagaaccg ttgcttcctg attgcttt 58

<210> 41658
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-H1

<400> 41658

actgaacagc agtccgagac gccatgaacg tggaggagga ggtcgggagg ctcaaggagg 60
agatccatag gctcggccag cagcagcccg atggctctta caaggtcaag tttggcgtcc 120
tcttcaacga cgaccggtgt gcaaatactt ttgaagcact agttggcacc ttgagggccg 180
ccaagaagag gaagatcttg acctacgaag gcgagctgct tctgcaaggt gtccatgaca 240
acgtggagat aaccctgttg ccccccactg cagttgctgc cgcttgaagc gaagagcacc 300
accaagttct cgattccata caactcgtat gct 333

<210> 41659
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-H10

<400> 41659

gatgcggtaa aagcgaaaga agaatccgat ccgcttctcc acgccgaacc cggttaaggcc 60
gccgccgctt ctcaaatggc ctcaacctcc tctcctcgc ctcagccgcc gccggcgccg 120
gcggcagcgt cgcccggggc agcttcctcg cccgaggatc gccgcgcagg tggaggccgc 180
ggcgggccgc ccccggtccc gccctatgtc aaggcgccgg cgggggtccct gggcggcgtc 240
atggaggcgt gctgcctgca gccgatcgac gtcgtcaaga cgcggtgca gctcgaccgc 300

acggtggcct accggggcat cgcgcactgc ggcgccaccg tggcccgcgc cgagggcgctg 360
cgcgcgctct 370

<210> 41660
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F5

<400> 41660

aaaaaaaaa aaaaataaaa aaaatattt ataaaaaaaaa aaaaaaaaaa ataaaaaagc 60
aaggaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaa aaaaaataa aaaaaaaaca 120
acaaaaaaaaa cgggcagtc caaaacattt cacccaactt taacaaagaa ttcttttaac 180
tctaaactta catattattg aaaaccaa ataaattcatt ccataacaa aaataacaga 240
tatacataca aaaactctaa caaacccac ttttaataaca ttgactcatt caggaacatt 300
cccattttta 310

<210> 41661
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-H12

<400> 41661

cgaaccttct aataagtggg cactcttcc tcacatcgcc tccctcgacg atggccggcg 60
ccaccgcgct cgccgccacg gcgtcggctt cgcgtcttct ccggaggtct atatcctctg 120
cattcctcgc gaggcgcgcg gtccctaaca ttccgggtac aactctctgg tattccttct 180
tcgcattccg cagacttaaa ccaacgccgg ccctgtcttc gcctgacacc ttcggcaatg 240
attgaagccg ccggattagg tggga 265

<210> 41662
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E1

<400> 41662

ctcgcgaacc ccgacaatgg ccgcaaccgc ggtgtcggtc gacgagaagc tcgacaagct 60
tcgcgccgag gtcgccaaac tcagccagat cagcgagaac gagaaggccg ggttcatcag 120
cctcgtgtca cgctacctca gtggggaggc ggagcagatc gagtggagca agatccagac 180
cccgaaccgat gaggtagtgg tgccgtacga taccctcacg tcgcctcctg aagatctcga 240
ggagacgaag aagctgctgg acaagctcgt tgtgctcaag ctcaacggag ggctcgggac 300
gaccatgggc tgcaccggac ccaagtctgt cattgaagtc cgcaatgggt tcacattc 358

<210> 41663

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E10

<400> 41663

cagcgagcga ccgcaccggc acggcgctta tctatccatc ggcattctct agcccaggcg 60
aaaggaaccc tagccatgag cgccgcctcc aagaagctct tccaggccgc caggtccttc 120
gtcctctccg cttctaaccg ctccgtcctc gccgtcaatg gccgtaccga cgcgctcgcc 180
acgctcacca actttggcag gaagaccctt cccaccgact acttatccta ccacaagcag 240
ggatcccacc atgccgcgtc ggcgtgggtga gccatcgccg tagcagtccc agctgcagtt 300
tcatgtctcc 310

<210> 41664

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E11

<400> 41664

cggacgcgtg ggttcggcgt ccgcatcaag gcgtacgagg acgccgcctc cgtgctcacc 60
gtctccaaga tccactacga gaatatcaag atggaggact cagccaaccc catcttcac 120
gacatgaagt actgccccaa caagttgtgt actgccaacg gcgcctccaa ggtcaccgctc 180
aaggatgtca ctttaagaa catcaccggc acctctcca ccccgaggc cgttagcctg 240

ctctgcactg ccaagggtccc atgcaccggc gtcaccatgg atgacgtcaa cgtcgagtat 300
 agcggcacca acaacaagac catggctata tgcacgaacg ccaagggcag caccaagggg 360
 tgcctcaagg agcttgcattg cttctagacc cttcatcgac tgacccatct ctctagttat 420
 aattttttctc tc 432

<210> 41665

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E12

<400> 41665

gaaaggctgg ggcactacct gctcgaacag gtgatgtaac aacaaccctt taccctggaa 60
 tgcattgtga tgatgttgct ggttccaact tcgttttcag taataataac aacaaagcga 120
 agaccctcct acctacccta tttgcttgag cggtctttgt ccgcgccaca agataccaat 180
 tgttgcgctg ggaatattca gttacgatga cccgcttttag ttcagctttt tttttggggg 240
 ggttggttcc atcatttggc tgtagcgtga atcgcatgga caacagactc caattactaa 300
 gcaaataattt ttctttctgc 319

<210> 41666

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E2

<400> 41666

cccagaagaa gcaagagaag gaagaggagg aggaaaagct aattctgcag aaggctaagg 60
 agttggatgc ctttgatcag cagaatcatg gggctgttcc ccagtaccat gatcgcatg 120
 gttcccaagg caagaatggg tttcatggag cgaacagtgt gaaggtcact tcttttgaag 180
 aggaagccct ccgtaacatg aaggcattct ggcttccttc agctactcct gaagctacgg 240
 tcaaggtaga tgcaccctcc gccgacactg tctgccctga ggggcaggag aagctcaagt 300
 tgaaatcgct cttccctatc tcatttatgg aagaaactgc tgatccgaag aggaagaagg 360
 caatggaaaa gagctatatg tgccttagtt gcaaattcac tctcaciaat acaatgtccc 420

tcgtggcggt c

431

<210> 41667
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E8

<400> 41667

gacccattcg ttccaacacc catccacgt aaccaagatt ctttcttagc tgaccttcca 60
acaactgtgg gctgctgtgt aaaaatacct aaccctaacg atgggtttatt atgatgtaca 120
atcatcgaaa gatataccac ctggagatcc caacaagcgt gcatttgctt actatgtcct 180
gagtgggtgg aggttcatat atgcatcact gttgcgtctc ctctcattga agattgtcct 240
tagcatgtta tcaagtaatg acattctt 268

<210> 41668
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F10

<400> 41668

aaatcgagtc cctgaacaag aagtatggat gtaatgtccc tttacttctg aggaactgtt 60
tgaataccca tgatgacca cagaagatcg ttgagaagtt ttccaactcc aacattgaaa 120
ttaatccttt caatcagagc cagtatcctc gaattgttac cgaggacttt tggccacttc 180
caagcaaagg gaaatctgga aaggatggct ggtatcctcc aggccatggt gatgtgttcc 240
cctctttgaa taacagtgga aaactcgaca tcttatgggc tcagggcaag gagtatgtct 300
tcgttgctaa ctcagacaac tgggggtgcta tagtcgacat caagatcctg aac 353

<210> 41669
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F11

<400> 41669

gcgagtacca ggcggagcac gcggcgatt gcgtcaagga caccgccgca gccgcccgcg 60
acagtgcgca gctgcagcag caccgccccca ccggcaccgt tgagcaggtg gcgcagacgg 120
gccagggcgt ggcggcaggc gtcaaggaca cgggtggcggg cgccggcggtt ggcgtcacga 180
acacggtggc gggcggtggcg gcggggtca cgaacacggt caccggcgcc gtggcgggcg 240
tcacgaacac ggtgaccggc gcgggggctg gtgtcaagga caccgtgacc ggccgggact 300
gatcgacgac ccaagaatgc ttcattgca 328

<210> 41670
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-018-Q1-K1-F2

<400> 41670

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ctgctgtgaa gaatcctaac cctaagggtg tttatgatga gtacaatcat gaaagatatc 120
ctcctggaga tcccagcaag cgtgcatttg cttactttgt cctgagtggg gggaggttca 180
tatatgcac actgttgctg ctctcgtat tgaagtttgt cctgagcatg tcagcaagta 240
aggacgtgct tgcccttgct tcaactcgagg tggacctctc cagcattgag ccaaggacca 300
cgggtgactgt gaaatggcgt ggaaagccag tcttcatcag acgccggacg gacgacgaca 360
tcaagcttgc caacagtgtg gatgtggcat ccctgcgcca cccagagcag gatgcanagc 420
gtgtgaagaa t 431

<210> 41671
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-D9

<400> 41671

cggacgcgtg ggcgcgaagg cacctagcag ccgccactcg ccgaactgag gaacacgcct 60
ggcgacggga tacagcagca gcgcgcccct ctatccccga cgcgacggcg ccctgcagct 120
gcagataaac ctgttccaat gggcaaaca aaagaggggtg tggacaaaag aactgctagg 180

aagatgatcc gatctacgga aggctgtgca aagagcatta ctttcgagag gaacaacaaa 240
 tcagacgatg tgcagcttca cgatctgccg aatgacatcc tacgtagcat actatcacgg 300
 ttgacattca gagaatcctc acagatgggc cttgcttctc at 342

<210> 41672
 <211> 254
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F3

<400> 41672

attgcaccga cggcgaccgc cccaatttt cttctaacc cttcggttca attaagtcgg 60
 cggggtccca ggttccttgg cctgggtaac cattatttta ttaagccttg tgcccaaatt 120
 ggacgcaagg acttccgggc ggaattcctt gagccgagcc aatttgata ccggttggcc 180
 acatagatat ccgaggacac cacacccaag gggccgagcc aaagtgatac ggagacaaat 240
 ctcccgccgg tggt 254

<210> 41673
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F4

<400> 41673

cccacacgtc cgcgctggag aatgccttcg ctcctacgg cgagatcctc gactccaagg 60
 tcatcaccga ccgggagacg gggaggtctc gcggcttcgg cttcgttacc ttctcctccg 120
 agaactccat gctcgacgct atcgagaaca tgaacggcaa ggagctcgac ggccgtaaca 180
 tcaccgttaa ccaggcccag tcccgtagcg gtggcggtgg cggcggtggc tacggcgggc 240
 gtcgcggcgg cggcggttat ggtggcgggc gccgtgacgg cggttatggc ggcagtggcg 300
 gctacggcgg tcggcgcgag ggtggtggcg gcggctacgg aggcgggtggc ggctacggcg 360
 gtcggcgcgga ggggtggtggt ggcggctacg gcggcgcgcg cggcggtctgg agggactgat 420
 gtgt 424

<210> 41674
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C4

<400> 41674

gctgcctgcc tgtccttctc ctctcctttc ctctccccgc gcccaacagc ctcacatgtg 60
catctgaaaa gttgagaacg acagttcctg agcacagggc gcgatggacg tcccggccgt 120
ggcggaccct ggaacggagc gaggcgaagg cgcgctgac cagtgcccg actgcgactc 180
ggaggcgatg cacaagctgg cgcagatcct cctccccggc ctgcgcccg tctgcgtgga 240
cggcaccacg ggggaccctg tccgcagccc gtccgcggtg gccgtggacc tccgcaagga 300
gatggtggac tacatcacgc agcggagcga cagcttcac cgcggacgcgc tgatcgagtc 360
ggaggcgaac caggacgcgc ccggggccga ggtgcccga gacccct 407

<210> 41675
<211> 350
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-018-Q1-K1-C5

<400> 41675

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ccgctcgcgc ctctctcgt tctcctcgga gtgttctctg tgtccgtggc gtctcctcct 120
ctcctcacct gtccactcgg acgccccca ccagaccgaa accctcgtt tcgacgagat 180
ccagctgtcg ccggagaagc cggctaccgn cactgccttc gtctgcacg gnctcctcgg 240
ttccggccgc aactggcgct ctttctctcg cgccctcgtc tccgaactcc gtaaccgatc 300
cccttcagac gagtggagga tggttctcgt ggacttgagg aaccatggca 350

<210> 41676
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C6

<400> 41676

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gggcacaggt tgcgatggct gtggtgttgg tgttcttggg gagcggcgca tgggtgcggtc 120
ctcccaaagt cccccaggc aagaacatca cggccaccta tggcaaggac tggctggacg 180
ctaaagcgac atggtatggc aagccgactg gtgccgggtcc cgacgacaac tgtggtggct 240
gcggttaciaa ggacgtgaac aagccccct tcaatagcat gggcgcatgc agcaacatcc 300
ccatcttcaa agatggtctg ggtctgaggt cctgcttcaa gatcaagtgc g 351

<210> 41677

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C7

<400> 41677

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gtgcttgctg gattggtttt ctctctcttt tttggttaaa taatgtaaac aatgcatacc 120
ggcgatggtt taacatggta actgagaatg tggactctt tctc 164

<210> 41678

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C8

<400> 41678

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gatcgtcggg actgggtcca cgcagctgtt ccaggccgtg ctatacgca tctcgctgc 120
aagtgcggc acgcccacg acgtcgtctc gccggcgct tactactcgt gttaccacgt 180
tgcgtcgagc tttctaaact ctgggtctta ccgttggggg ggtgacgcca atacatttgc 240
cggcgacgac accagctgtg ttgaggtcgt ctgctcgcca aacaaccctg acggtggcat 300
ccgacatgcc gtcgtcaagt ccaaaccag caaggcgatc tatgacttcg cctactactg 360
gccgcagtac acgcccacga ccgaggcggc ttgccatgat gtcatgct 408

<210> 41679
 <211> 410
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-018-Q1-K1-D1

<400> 41679

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 agagctgcga ggacgcgtgg aagggcgagg aggaggatgt ccccgctgcc gcgcacgaca 120
 gggagtacgg tcggatggcg cacatgcctt tcggattcac acaccacgcc gccgctgccg 180
 ccgccgccgc atgaatcgat taattattat atatatatat gcatgctatc tactatgatc 240
 gatcgcttct cgaccttctt gcatcgatct gcatgcatat tataacttat attatattga 300
 tgccacgccg catgcaggtc tttccaaggc gtacgtacta tatcaaatta tnttaatgtc 360
 cttacatgta tatgtatgtg ctgctgatgg atacgtacgt atatatatat 410

<210> 41680
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-D10

<400> 41680

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 gtcctcaaca cccagaacct gccgctcgtc aaggaggctg ggctcgggtg tgaccttgct 180
 aggatcgacg cccactccat gtgctcggcc ggcttctcct gcgactccgc ctaccaggtc 240
 acctacatcg tgcgcggcag tggccgcgtc caggttggtg ggatcgacgg cagcgcgagt 300
 ctcgagaccc gcgccgaggg aagctgcctc ttcacgtgct 340

<210> 41681
 <211> 428
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-018-Q1-K1-D11

<400> 41681

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agcgaatcga ggagattttc cccactgttt ctttcctgct gattccgatt tcacgttgaa 120
acaccggggg gagaagaatt gcgggcgacc ataactcggc aagaagcggc tccaaaaagg 180
gcatctacct ttgccgattc cggcaccgat ggataccgcg gcgtcgggga ggttcgacaa 240
gctccagagc tcgttcaagc tctccatcca gtgcctcctc acggcctgct cccgcgagga 300
tgtcaatgac gctttctcgt ccttcactga tgctgagaag gagcgtttgc accggatgct 360
cacccttggtg atgaagaatc tgcattgcaa cgtantggat gagtttgacg actttctgcc 420
agaaacac 428

<210> 41682

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-D12

<400> 41682

cccacgcgtc cgcggacgcg tgggaagaaa tatgaaactg cccagttcca gtaagtttag 60
ctctagatct ctagaagaaa aacaaaatca gtgcacagct gcctgctcaa atgatgcaac 120
acaaaataaa ggtggtttga gggaaagctt gtgggtaact cggcttttgc caaaagcatc 180
agtagaattg atggaggcaa caccatgcaa ttagagaaat gctgttagtc cacaggctgt 240
gggtgacaag ttgtgttgtc cacctcttca gaattttaat ttggagaagg aaactaataa 300
tatacaata 309

<210> 41683

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-D2

<400> 41683

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agcattggat gatcctctaa caagtgttgt accatgctgg gtgcgccagg aagacgatcc 120
 ggaaggctag tacctggaca tgctggattg tggatcatgac tgtgaaacag catgtgtcaa 180
 acaatggctg gttataacag acctgtgctg aatttgcaag aatacaggac tggacaccta 240
 gaaacattga tgcctttacc cttatgaata agcctaccga ctctgggcaa gtaggttaca 300
 tgtaacatac acgctgccat gactagcata gtatgttaca gctttcccat gatcatcata 360
 catgttgga tctatactat a 381

<210> 41684

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-D4

<400> 41684

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 acggccccct tcttcggttt cctcggcgcc gccgccccc tcgtcttctc atgcatgggc 120
 gcagcgtacg ggaccgcgaa gagcggcgtc ggcgtggcgt cgatgggtgt gatgcggccg 180
 gagctcgtca tgaagtccat cgtgcccgtg gtcatggctg gtgtgctcgg tatctacggg 240
 ctcatcatcg ccgtcatcat cagcactggg atcaacccca aggccaagcc ctactacctt 300
 tttgatggct acgctcacct ttcgtccggg cttgcctgtg gccttgctgg gcttgcagct 360
 ggcatggcca tcggcattgt tggatgatgt ggagtcaggg cgaatgcaca acagccgaag 420
 ccttttgtgg gcatgat 437

<210> 41685

<211> 367

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-018-Q1-K1-D5

<400> 41685

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 cgagatcatc gtgcacggcg tgtctggcta ccacatcgac ccttaccagg gcgacaaggc 120
 gtcggccctg ctctgtggact tcttcgacaa gtgccaaagc gacccgagcc actggagcaa 180

gatctcccaa ggcgggcttc agcgtatcga ggagaagtac acctggaagc tctactcgga 240
 gaggcttatg acccttaccg gcgtgtacgg gttctggaag tacgtgtcca acctgtagag 300
 gcgcgagacc cggcgggtacc tggagatgct gtacgcgctc aagtaccgna ccatggccag 360
 caccgtg 367

<210> 41686
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-018-Q1-K1-D6

<400> 41686

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 agatgtttct gcgacggatc ctgaccggcg gaggtggcct ggcggcgctg agggcgggcg 120
 gcgccgtgaa ggagacgacg gggatcgctg gccttgaggt ggcgccaac gcgcgggagg 180
 ttctcatcgg gctctacacg cgtacgctca aggagatcga ggccgtcccc aaagacgagg 240
 gctaccgcaa ggccgttgag tccttcacca atcaccgnct tcagatctgc caagaggaag 300
 acgactggaa gcgcatcgag gaccgaatcg gatgcgggca agtcgaagag ctcatcgagg 360
 aggccgagga cgagctcaag ctcatcgcca aaatgattga atgggatccg tggngtgtcc 420
 ctgatgacta cgaatgtga 439

<210> 41687
 <211> 375
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-018-Q1-K1-C3

<400> 41687

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 accgagaaga ctctgctgc cttgcatgga cggctgaaca ccgaacttgc tcctagtggc 180
 agaaaatacag aatttagtga agctgacact ggagaacaag agacaccgt gtctgctgag 240

gctatggtag aatcatcgag cgagcctcgc agccatgagg canaggaagc tncaaccccc 300
 tgacctgtcn tgggatgatg aaaaagcgaa gtcagcaagg gctgctgnnt gtgcggaact 360
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<210> 41688

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-D7

<400> 41688

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 atcgtgcatg gtgagaagga agagtcaaag ggcacgatg cgaaagcgtc cgggccttgt 120
 gggctccttcg acatcaccaa gttgggcgcc tccggcaatg gcaagacaga cagcacgaag 180
 gctgtgcagg aggcattggc atcggcgtgc ggcggcactg ggaagcagac aatcctcata 240
 cccaagggcg acttccttgt cggacaactc aacttcacag gcccttgcaa gggcgacgtg 300
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<210> 41689

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-D8

<400> 41689

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 ctctgaaaa ggcacgatcg gactttcagg ttggcggatc ctgctcctga gcattgacca 180
 cccggagagt ttgtccggga catccactc cctacccgaa tccctgaaga ctccactctg 240
 gaagcgtact gcgatgaaac aggcacagtg ctgtagatca ttgtcccga gtttcgcgtt 300
 ggccctgaag aacacgaagt gcatgtgtac atgaggtcac cctcgtactg gtgccaatga 360
 aacctgttct caagcttgcg ctaggagaca cgcatacggg gtggagctat gccgtaaggc 420

taaagctact gcacaac

437

<210> 41690

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A6

<400> 41690

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ccggccgcct tcctccagaa agtatcacc gtgggtcccg gcgccgaat cacctcttaa 120

tttcgttctt agccgctgcy tttcacagag gtcgagacat gccacctcg gcggtctctc 180

ctgccagcc cgccgcaccg cccctctctc ctctctccgc ttctctgcc cctccggagg 240

atgtggaggc gactgccggt tcaccttcga gggcttcagc agtggggacg gtgaactggg 300

gaacggtcac cctcgttggc gtcttcgctg ggctgctata cggcgggaag ca 352

<210> 41691

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A9

<400> 41691

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ttcttggtga tcccttagat aagagtattg tccttcgccc tctggagcca gcacctatgc 120

agcaccttgc ccgtgagttc atggtaaaga ccaggcgaag gaagggcatg agtgaagatg 180

tgagcatcaa taaattcttc gacgaggcca tgatgaatga gctggcccaa caggctgctg 240

atatccactt gcaaatgatg tagtcaaaaa gcgagatgaa gtgcacacgt ggaagatgca 300

tatgcctca gtttcttcat accatacatg ctgcagatgg gactgccgga gttccagtcg 360

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gggtatcat 429

<210> 41692

<211> 354

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-018-Q1-K1-B1

 <400> 41692

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 tctccacacc caaggttgca cctgagacca ctgccatcca cattgaggtt gcggcgaaac 180
 aggcagtagt tgagaagggtg gaggaggaca aggaggaggc actaacagtg gcggcgaaac 240
 aagagccagc agccaccatc gagcctcaac agattgctgg tgaggtgacc acttcggaag 300
 tggcggtcgt cgttgctcag cctgagaaca aagagganga ggaaagtgtg gaga 354

<210> 41693
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-018-Q1-K1-B10

 <400> 41693

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 cagctattgc gatggcaaag atggacaagc tttccaatgc aagggttaaa acagctggat 180
 caatggctgc ctggacagca cacacttctc tacatgtgga taccagcggc acatatgttg 240
 acaaattacc ttaaccacg taactactaaa cggctgtcag ctttcagcat gtcgattgca 300
 atgctagcca acggacatat gattt 325

<210> 41694
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-018-Q1-K1-B11

 <400> 41694

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attagctttg ctggtggtta cgttgccggt gtcttctgtg ctattgttcc tcacccgggt 120
 gacaaccttg tgtcttttct gaacaatgcc aagggagcta cagtgggaga tgctgttaag 180
 aagcttggtc tctgggggtct cttcactaga ggacttctc ttcgtatcgt catgattggg 240
 acccttactg gtgctcagtg gggaaatttac gatgcattca aagtgatggg tggactccca 300
 acaacgggag gtgttacacc tgccccagca gcagaggctg gattgaaagc cagtgttga 360
 tttttttttt ctgtgttccc tgagatcata tttggg 396

<210> 41695
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B12

<400> 41695

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 cccggcacgg tgtggggggc gcgcggctgc gctggcgagc gctgcatcc tctacaccaa 120
 ggacgtgtc atcgggcaga gcccgaaccc ggcgttcgac agccccgcgt cggagaccgt 180
 ggccaacaag gcagggcgag ggccctgttg gagagagctc ctggagccgg gtgtcaggcg 240
 cgcgtcttcc tgtggcgta tgattcacat cctgcagcag ttgtctggca tcaatgggtg 300
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<210> 41696
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B2

<400> 41696

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 gatggagatg aagaagatcg cctgcgccgt cctcgtcgcc gcctcggcgg ccaccgtggc 180
 gctcgccgag gaggtccgg ctccggggcc caccagcggc tcctccgtcg tcgcgcccgc 240
 cgtcggcgcc gacctcgagg ccgcccgcgc ctacttcttc ggctactaca ttcagtgagc 300

cggccgcggc cggtcgcccc gaggccgagg aagagacgaa gcgggagaga gagt 354

<210> 41697
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B3

<400> 41697

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aagaacagca tatccaagcg ccaggagaag actatcatga aactggtagt tgatgctgaa 120
actgacaaag tacttgggtgc atccatgtgt ggaccagacg cacctgaaat tatccagggc 180
atcgctattg cggttaaatg tggagccacc aaagcagact tcgacagcac tgtcggaaatc 240
cacccttccg ctgctgaaga gttcgtgacc atgcgccaccg tgacgaggcg cttgagccccg 300
acatccaagc caaagacgaa cttgtaagca agaaattggg attctgggga aatgttacac 360
cggacaaata ctctggtttc atcacgttgg taatttttac gtcattggaa ctggaaccat 420
gtatattg 428

<210> 41698
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B4

<400> 41698

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tggaacgcca ggttccttgg accactatat ccaggagcga cgaagtgatc caccgcgcag 120
ccatggagat gaagaaggtc ctctgcgccg cctctgctgc cgccgtctcg gccaccggcg 180
tgctggcctc ggtcgctgc gaggcgcct cagagcgcc cgacggcgcg gtcggtggtg 240
cggtggccc tagcgcaagc ggcgcggcg tcgtcgacgt gcccgccgac ggggcgctcg 300
tagactactt tctgcctac tacctccact gagcgacgac gcgcggggcc ggcacgttgg 360
gatgca 366

<210> 41699

<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B5

<400> 41699

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ttcccatccc atctcgctt cgcttccac cagcccccct cgccccgctt cgccgcggca 120
aggcaccgac gccaacgcc ctctccctct tcgactcgac cgcgtagtg agagacgacc 180
gcgcgcgccc ctgcgccgcc cgcccgccag gagatcgacc cctgaacgcg tcatgacgta 240
cgtgctggtg accggcgggc tcgtgaagcg gctctggaag ggcgtagtg tcagcagcgt 300

<210> 41700
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B6

<400> 41700

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catacacaaa tctttccttg tgccattttt tgctcttcag gcaccttgca gcataatctc 120
atggatcaag ggtgactatg gtcagtggac tgcttttctt gctttgttgg tgcgtctatt 180
cttcttcatt ccaggtgaac tggagcttcc gctgtcaaca atgctgcttg tgagtgttgc 240
tccttaccaa ttcattgata ttaagggaac tcaaagtg 278

<210> 41701
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B7

<400> 41701

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tgatcgagca gattcatcac gcaattccca gagcggtagt tctaacacca agacaccatc 120
agagtttcaa gaacaggcag aaggaaatcc gaatgatggc gcaagtggag cggcaataaa 180

ggggactgaa gccgatcact gatgtaaatt tactcgtata tacgtatagt gttctagcta 240
 tgcattgcttg cgtatatgct gtacttcctt cgcaaattagg aacaggagag caaatttatg 300
 ctgccatgct aatagatctt cagtacacct gtaaagcaac cactcacagt tagatgatta 360
 tttattgaat caaattttat ttaaaagaaa atttt 395

<210> 41702
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B9

<400> 41702

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 gtaaagcttg tgttccaacc atcagaggag ggctatggcg gaggccta cgtcttgcaa 180
 gaaggtgctc ttgacggcgt gtcagccata tttggcttgc atgtggacct agcacttcca 240
 gtaggtgtcg tcgcatcaag gccaggacca ttcacagcga cagcgggtcg gttctctgca 300
 actattcgtg ggaaaggtgg tcatgccgca gtaccccatg aatccgtcga cctgtttgtg 360
 gttgcagcca ctgcaatcct cagccttcag caaatcgttg ctctgtg 406

<210> 41703
 <211> 110
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C10

<400> 41703

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 ggggggcttt ctgagataat ggcaaggtat ttctactttt tttgctttat 110

<210> 41704
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A5

<400> 41704

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tctcatatgc atcgaagatc cgcttgagat ctcccatgat ctcggtcgcg tagttgacaa 120
gttcaccatc aaaataactca gggaggaatt cgagcgagca gctaataatat tacagttcga 180
tccaaacccc agcgtaacac tctttgagcc ctacgtgccc cctccatcgc cgagcctgtt 240
gcaagaagaa actgcgaatg ctgcagaaat tgaactatga tagcgtttgg ttcgtcccca 300
ggatttggta tatgaaatag aatcaactca aggattttg 339

<210> 41705

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C11

<400> 41705

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ctgaattatc tttgtcaaaa tgttcagtgt gacaatcgtt gttgcatatc tcatgaagaa 180
gcatcaaatg agcctcgaaa gtgccttgct actagttaga agtaaacgac ctcaagtggc 240
tcctaattggg gggtttattt cccagctgga gaagtttcag aaatccttgc aaggtaaaac 300
acaaatagtt gcctttgtcc tcctttatgt taaaatgggt tcagagcaag gtgacatgtg 360
tatcttgctt aatga 375

<210> 41706

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C12

<400> 41706

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atggaatcca agcaaacccc aaggactatc tcactttctt ctgcttaggt aaccgtgagg 120
tgaagcagga gggagaatat caacctgagg aacaccaga acctggcact gattacatcc 180

gggctcaaga ggctaggagg tttatgatct atgttcatgc caaaatgatg atagtggacg 240
 atgaatacat catcattggg tccgccaaca tcaaccagag gtccatggac ggtgccaagg 300
 actctgagat cgccatgggc gcgtaccage cgtaccacct ggcg 344

<210> 41707
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C2

<400> 41707

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 agattctagc cttatgttca agattaccca caagattgca tataaaaaatg tggtgaaagc 180
 tcatagcgct gttatactga aagctgaaag catgagtgat aaaactgaat ggatcgccaa 240
 gattaagggc atcgtcgacc caaaaaggct ttctgcaaag aaaccaagcg cttcagaaaag 300
 cggtgcccca atgaggcaa 319

<210> 41708
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-H11

<400> 41708

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 caatcagctt ttttgtgagt agctatgcgc ggtagttgga aattggaata atgcagctat 120
 gctttttttt agggttgcgc tcctagttct aataatgtac tacgtatatt ggaagcagaa 180
 taaatgttag attgtaaaaa aagaaaatcc aaaaagaaat acgaagggaa aaattaaata 240
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<210> 41709
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-H12

<400> 41709

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atgatagagg gttgaaactt gtttagagcta ttcttaggcc actaatgcta aggaggacca 120
aggaaacaaa agacaagatt ggaaatccca tactgggtcc acctccagct cgtattgaag 180
ttgtagaatg cgaacaaact gaccatgaac gtgatttcta tgaagcactt ttcaggagat 240
caaaggcca atttgacaaa tttgtagcac aaggcagtgt tctgaacaat tacgctaata 300
ttctcgagct acttctccgg ctaagacaat gctgcatca cctttttctg gttatcagcc 360
gagctgaccc taanaagtat gct 383

<210> 41710
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-H2

<400> 41710

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cattacttgt tgtatttaga aaatctaata ttatgaaggt caactttctt attttactga 180
aagtctaaaa cacactacct attaacatat tagtgctgc tcaagtgcag aaaaatgggtc 240
aaaatcttcc ttgtgttgct ttagcaatgc tttagcactc catatattct attataatta 300
ggcagggttg gagaagaaaa gcgcatcaca gggaatatct atgacacttt tatactcatg 360
ttcttggtt tcttgttgc agcctacaca aatctggagt ttgaacacac gacagggtgat 420
atgcttatcc tttgtggatg gact 444

<210> 41711
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-H3

<400> 41711

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ctgagggcgt gggcaagccg gagtggggca acgcggttcc gggcgactcc ggcagctaca 120

aggactggcc ggaggacacg ggcttcttcc ggcgcgaggg cgggtggagc acggagtacg 180

gggagttctt catgagctgg tactcgcaga tgctcctgga gcacggcgag cgcacacctgt 240

cggcgggcag gggcgtgttc acgggttccc cggcggtgaa gatctcggtg aagggtggccg 300

ggatccactg gcactacggc acccggtccc acgcgggcga gctgacggcg gggactacta 360

acaccccggt cgcacgacgg gtacgcgcnc atcgcgcgca tgctggcgcg cca 413

<210> 41712

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-H4

<400> 41712

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cagatcatcc atcggcaatg tcgaacatcg ggcagtcctt ccaggccggc aaggctgagg 120

cccagggcga gtaccaggcg gagcacgcgg cgcagtgcgt caaggacacc gccgcagccg 180

cggccgacag tgcgcagctg cagcagcacc gtcccaccgg caccgttgag cagggtggcg 240

agacggggcca gggcgtggcg gcaggcgtca aggacacggg ggcgggcgcg gcggttgcg 300

tcacgaacac ggtggcgggc gtggcgggcg gcgtcacgaa cacggtcacg ggcgccgtgg 360

cgggcgtcac gaacacggtg accggcgcg cgctgggtgt caaggacacc gtgaccggct 420

gccactgacg gacgacccaa gaatgcctca tgcac 455

<210> 41713

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-H5

<400> 41713

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gctcttggaa gtttttcaga agttccagtt gatgtcttca tcttggagga ttgccctcac 120
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gcagggctga tagctgggtg tctactact gtagtgccgt ttttggaga ccagttcttc 240
tgggggcgaga gagttcatgc acgaggagtg ggtcctgcac ctatatctat cgcagaactt 300
actgtagaag cactatcaga tgcaataata ttcattgcttg atccagaggt aaaatcacga 360
acaatggaac tggcgatagc aataagcaat gaggatggtg tggc 404

<210> 41714
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-H6

<400> 41714

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ttttgctaga tggttttcac cgtaatcaat aatatggtgt tagagcattc taaatttcaa 120
gaacatagta attgtagaag ctaaaaaaat agaagtaact aggagctaag ttaaaattat 180
tgctctctag acctgcatgt ccaattttta ttatgcagtg aagtaaatta tgttttctgt 240
aaaagtgtta tatagaaaag ttatagctaa ctcttttctc ttgcttgtgc taaaatttca 300
tgaccatagg tctgtagttt aaaagttagt attttctcaa gtccagtctt ggaatctgtt 360
tagattttgt acatatttctg aaactgactt tgtttgttca atttaaacad agaatcagtt 420
cttataaatt ataagaagtt gtatgtaac 449

<210> 41715
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-H8

<400> 41715

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gcatatatat attcctgccca agataaagggt aatggagtcg tcacgcaggt tccagccggc 120
cgtcacctctg cttctcctgc tcattgtgtc caccgatatg gcacaggcaa gggaatgcga 180

gaagtacagt gagcgatttg ttggggcatg catgatcgca gacaactgcg ccaatgtgtg 240
 ccgcggtgag ggcttcttgg ccggcaagtg cagcaccttc cgcgcgcgct gcatctgcac 300
 taggcagtgc taaacaagat cgctcgatcg ctgcgccatgc atcgacaacc tattcttaat 360
 aacgttcatt atctcgttct taattatgac gaatgtcatg tatgttcttg tgactgtcat 420
 gtatattctg a 431

<210> 41716
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-H9

<400> 41716

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 cccaactcgc tggggatgga cttcgtgaac aacgatgatg cttccgttgt cacgtgctc 180
 aactacaatt tcttgcatat gaacatgtac cgctacaagg acatactgat caatgacgtg 240
 accttaacac gaccgcaaga cagcccgaac acagataaca tccacatagc cgactcatga 300
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<210> 41717
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A1

<400> 41717

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 ttatatataa aaacattact atctactagt gctttattcc acataatact agtgctagta 180
 tcgcatcatg ccctaacttt tctttgccaa acattattgt ttgcctcctg gtcgtgggtcc 240
 tgggttggct ccttgatgcg catccatcta ctagtatact ggaaaactgg ccactacaag 300
 ggccgatgct gtcctatgaa gtata 325

<210> 41718
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A10

<400> 41718

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acgacgtcat ccccgccaat ttcaaggccg gcaccaccta caagaccacc ctcagcatct 120
gattagcctc ttatgacgaa taatatttca agagagctca tccggcccat gtgccagcga 180
gctaataattt aattcttctt ctttggatat attgaggcac cacacgagcc aagaaaaaag 240
ttatgctaca tgtcccgctt cacgccttga tgcgttaggt tgatatgcat gattacatag 300
attaaactac acttttattt aagatTTTTT ggggagacat atattgatct 350

<210> 41719
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A11

<400> 41719

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gatgtgatcg tggactgtgc gagcgtgcgg ttccatacag gattggaacg gacaggcttg 120
acgcgcggga gcatatctag tcgtgcaggc cggcgcgagg ctacgagcat catggagttt 180
ctgtggacca tgataacgtg atgcatcgta taagaggacg aggacaggac gtcctgacag 240
gacctgcgga tcccatgatt ctcggaagag gcaccctgaa tcgaagc 287

<210> 41720
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A12

<400> 41720

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catgatgcac gggcgcaaca acggcaagaa ggtcatggcc gtccgcatca tgaagcacac 120
 cctggagatc atccacctgc tcaactgacgc caatcccatc caggtgggtcg tggacgccat 180
 tatcaacagt ggaccacgtg aggatgccac ccgtattggc tcagctgggtg ttgtgagaaa 240
 gcaagctgtg gatattctac ccctgag 267

<210> 41721
 <211> 329
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-018-Q1-K1-A2

<400> 41721

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 gggaagaggg cgaccgaagg cggcgatggg tttcatcatg gacttcgcgg agaattctgat 120
 cctccgtctg atggaggacc cggacaagcg cgaccagggtt cggcgggagc atgtctacaa 180
 gatgaaggag cgggtgcgagc gcactaaggc ggcgtggagc ctgcctctgc gccctacgg 240
 cttctggacc ttcgaccgct tcaactcgca gctctctgg gatccccaga tcagccaggc 300
 cgncggccgt cgggaccctt acgacgacc 329

<210> 41722
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A3

<400> 41722

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 ggagggaaaa aaaaaaaaaa aaaaataaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa 120
 aaaaattaaa aaaaaaaaga agacccttat aaacactacc atttacattg agagtatttc 180
 tacacaatca attttttata cggacgcact atttaaatat gtagccctaa tataatcaac 240
 tactcattat gaaaaatcca ccatttaaac taataatttt gctggaaacc ttacaacttt 300
 taaactttcg gtcgttttta aaaattctgc gaacatata 339

<210> 41723
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-A4

<400> 41723

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 caccagcagc atcgccacca gaatcgccgt cgacaccacc accagagtcc gtcgactaca 180
 ccgccgacac cagcagcagc accaccgaaa tcaccgtctg atccaccacc agctacgcca 240
 ccaaaatcat catctgatcc accgtcgaca ccagcagcta caccaccggc gactccatcc 300
 ccatcatctt aatcacgaag gatatttcaa aagcagtagt agtttagtca aattagatat 360
 gcgttttagg attctagttg atatgc 386

<210> 41724
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-H10

<400> 41724

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 gtgcgagatc gagggccacc acctcgccgc ggcggccatc gtcggccacg acggtgccgc 180
 ctggggcgag agcacggcgt tccccgagtt caagaccgag gacatggcca acatcatgaa 240
 ggacttcgac gagccagggc acctcgccgc gacaggcctg ttctctggac ctaccaagta 300
 catggtcatc caaggcgagc ctggtgccgt catccgtggc aagaaggat caggaggcat 360
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<210> 41725
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-F6

<400> 41725

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ggatctcata gcacgactaa atcaggaagc agctgttaaa gaatatctta ctacaaaggt 120
taaggatttg gaggttgaat tggaagccgc aaagcaaaag ggtagagaga cactgcaaca 180
agctatcctg actgaaagag agaggattac ccagatgcag tgggatatgg atgagctccg 240
taggaagtat tctgagatgg agtcaaacct gaaggctgaa caaaatgaga aaactcgtgc 300
agagtcagag aaaacaaccg ctagtgataa aaatgaaaca ttacttgaag aattagaaat 360
caaacgaaaa gaagtcgaga ctttgaacat catctttag aagctg 406

<210> 41726

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-F8

<400> 41726

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acacgacccc tctcagcgtc gcgcagtggg gcgcctgcgt cgccatcggg ttcgtcggca 180
tgcccgtcgc cgtggcggtg aagatggtgc cgggtggagta ggccgggcctc tcgatctctc 240
tcggagttga gaaactggag gcaggcaggg gggcagtagt tgttggcttg aaatgtctat 300
aacagcagta ttcttttttt tttttgtggt aagaacagaa cagaacagaa caggctttat 360
ccatctgtga ttctactac 379

<210> 41727

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-F9

<400> 41727

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ataaatacaa aaaaaatacc gatataacga aaacacaaat caatacgact actgcataaa 120
 aaaaaaactg atgtgaggac acgcacatta ttacaaatcg ggggcggctg ttttaaaaga 180
 atacagtttt ttttccatta gctgaaactc aaaaattctt tttttagcac gacaaactta 240
 tactgttttc gccgactttt ctaatcacag gtttttaaaa actgtttatt tccctaaatt 300
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<210> 41728
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-G1

<400> 41728

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 ctgcgaagtt ggtagaaga tgcaaggcag catgcaaag ctaacatgac tgtgatgctg 180
 attggaaca agtgtgatct ttctcataga cgtgctgtca gctatgagga aggtgaacag 240
 tttgccagg agcatggtct ggtctttatg gaggcactctg ctaaaactgc aaaaacgtt 300
 gaggaggcat tcattaagac cgctggtaca atatacaaga aaatccaaga tggcatattt 360
 gatgtatcaa atgag 375

<210> 41729
 <211> 217
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-G12

<400> 41729

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 tgtaatgaag aaagggggaa aaagacaaga gaatgaaact gttgaaaatg gaaggaaaaa 120
 gctcaagaca gatgaagaac atgcttatgt gctgattaag tatccaataa atgatctgct 180
 agtaaggccc aatgcagatg atccgtcttt atttaaa 217

<210> 41730

<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-G2

<400> 41730

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attacactgt ttgtgcatga gctgcagttt tatcttacca cctacacggg gcatcagatg 120
tctgtagatc tgaaacgagg agaaactctg ccaatccata tcaatatgtc atttccttct 180
ttgccatgtg aagtattgag tgtggatgca attgacatgt ctgggaaaca tgaagttgat 240
ttgcatacaa atatttggaa gcttcgcttg gataagtatg gccatatcat cggtacagag 300
tacttgtctg acctagttga aaaggggcat gggacacatc atgatcatga ccatgatcat 360
gaccatcacg atgaacaaaa gaagcatgaa caaaccttca acgaagaaag cagaaaaatg 420
atca 424

<210> 41731
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-G3

<400> 41731

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gagaacatcg ccagctggt ggctccggag gcagaaggcc cggccgatgc cacggccacg 120
gccacgctgg ctgcttaacg gaccattgtg ccattgttgc tgtgagagag atgtgcgtca 180
gccaacatgt gtgctattgc tttggcttat ttgtgttcag aatccactta aactcggtcg 240
aagtgaagctt tccgttcggc aacgtctgta ctcttacgaa tctcgatcgt gtatgtcttt 300
aagtattgtg ttgtgtttca aagataaaaa aaggtgacct ttgtgtatga tttttt 356

<210> 41732
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-017-Q1-K1-G4

<400> 41732

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gttgccacca tatccgacgt ggagatcaaa gagcatggtg gcgatgactt ctcctttacg 180
ctgaaggagg gcccgaccgg cacctggaca ctctacacca agggcccgct caagtacccc 240
ctttgcatcc gctttgctgt caagtctggt ggctaccgca tcgtcgacga cgtcatcccc 300
ggcgatttca aggtctggcag cacttataag acgacactca gcataatc agcatctgaa 360
gatgaactat atttcaaaag agctcatctg ggcacgtgt tagcaagaca attnttttct 420
ttggatattt tatggca 437

<210> 41733

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-G5

<400> 41733

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cgttcgcgga cccctttgag atctaccgtg cgttgccgat cgtgaatcct agcccatata 180
tggcctatct acaggcacga ggctgtattc tcgtggcatc aagccctgaa attcttacgc 240
gggtacaaaa gaggacggtg gtcaaccgac cgcttgctgg aaccataaga agaggcaaaa 300
caaaggcaga agacaaagtt ttagaacaat tgcttctgag tgatgaaaag caacgtgctg 360
aacatattat gcttgtagac cttgggcgca atgatgt 397

<210> 41734

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-G7

<400> 41734

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 gaacaccacc agatgagaag attgccatca ccaaagctat tataaatgta tcgaatggat 180
 ccaagcccc actctttgct ggcatcatag cacttgtgat gagcatcgca acgatgggcc 240
 gtctgacccg cagcatgatg cctgggaagg ttctcggtgc tgccataggt ggagctaccc 300
 tctcagaagg taaatcaaaa gtacaagagc gccagcgggc caagctatca gaagaggctg 360
 tggaagaagc tg 372

<210> 41735
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-017-Q1-K1-G8
 <400> 41735

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 tgccgcaacg tccccatctt caaggacggc aagggtcgcg gctcatgcta cgaggtgaga 120
 tgcaaggaaa aacctgagtg ctccggcaat ccagtcacgg tgtacatcac tgacatgaac 180
 tacgagccta tcgctcccta ccacttcgac ttgagcggca aggccttcgg ctccctggca 240
 aagcccgggc tcaacgacaa gattcgccac tgcggcatca tggacgtcga gttcagaagg 300
 gtgcgatgca agtaccgccg cgggcagaag atcgtgttcc acatcgagaa agggctgcac 360
 cncaactacc tggccgtgct ggtgaagtat gtggcggacg acngcgacat cgtgctgatg 420
 gaaaatcagg ac 432

<210> 41736
 <211> 336
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-017-Q1-K1-G9
 <400> 41736

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gctgtcgeta ccatgatctt ctactgagtt caccagctgg gaccgtgtcg tcaaggggtgg 180
gcacgtactt ggctgtgcgg taattgctcg tctggtcggg agggaccaat aacgcaagtg 240
ttgcttttget ttgctcactt cgtttgctct tgtaacttta tggcgtcaac cgttatataa 300
ctgaaacgat ttgattaatt gataactaatg ctctct 336

<210> 41737
<211> 395
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-H1
<400> 41737

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aagaacttca ggtccaacat ttccagtctg aagatagctc ctagcaaaac cttgcacggt 180
ggaatgcaat atgagatttg agtagaggag ccttgcaaga tatgatggac gtgagattct 240
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cgatctgttt gtaattaggt cagcctcgcc atacaaagct accatggtca taactttgga 360
actatntatt tgagtgtggt ctttgttgca caatt 395

<210> 41738
<211> 407
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-017-Q1-K1-F4
<400> 41738

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tttgtcctcc gacatccaca aggggggagg ggaaaacacg tacattcacc cggcggcaat 120
aatggcctcg gttccggctc cggcgacgac gaccgcccgc gtcacccat gcctatgcgt 180
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cgtgtactgc gacacctgcc gcgcccgggt cgtgaccaac gtcaccgagt acatcgccgg 300
cgccaaggtg aggctggagt gcaagcactt cggcaccggc aagctcgagc gcgccatcga 360

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407

<210> 41739

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E11

<400> 41739

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tggcttctat gtaggatgca actggacatc gccgtccact cgtctagcta ttgatgctga 120

agtcccgatg cttcatgcc aacgcgatgg ggctgggtga tctccgatat caagaggagg 180

gaagaggcac tgaagaatgg tgcagatcca catttggttt tgcataattg ctgccttagc 240

tccaccaatt gtatttcatt ggaaatcatt aacgtaagtt tgccactcct tttatctaaa 300

gtaatcaaag tcattagtta ttatgggctt gggtaatgtg agtaagcacc attgcataga 360

tagccagtga tgttggctgc tggaaaagga gaaatcaatg aattatagat tgggatcaca 420

gaact 425

<210> 41740

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E12

<400> 41740

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aggggagggt ccgcctcgcg ggacaacacg acgttccgca gcctcgagcg cctcaccatc 180

accaccagca ggaggaagtg agctgccgag gaccacgccg acgaattctg agagtggag 240

gcggttacta ggccgaggaa cttttgcggg atccttgctc tctgcagctg aagcaaactg 300

gcaaatagat gatggatgga tggttacaag gctgccatga aaatgcacc tttccccaaa 360

ccccagcgta tagtataacg ctctcccca actccaagag ggaagacaac tccaaagtac 420

aatgcaatct tgattctgtc gatc 444

<210> 41741
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-017-Q1-K1-E2

 <400> 41741

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agatataatg agaaccacac cacatttgcg aattattgga actgggtttg catttggtatt  180
tcttggtgga agaatgatgc tgggtcactt gtgtgatgaa cccaaggggt tgaaaacagg  240
gatgtgcatg tcccttgctg attttccatt tgcaattgca aacgcgttga ctgcccggct  300
tgatgatgga aatccactcg ttgatgagca gctagtgtct ctgatgtact gncatatttac  360
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gatccactgc ttcangatca ctag                                     444
  
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<210> 41742
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-017-Q1-K1-E3

 <400> 41742

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tgaacctctt caccacacgc gaccagatca gcttcggcta cgtggcgcg caggctcggcg  180
acgctctcga gctcttcctg ttccccaact gcgagtacaa ctgctgttgc gtctgcaca  240
ggcacacgag ggagcactcg tctaaggctg agtggggcaa aacggtcgac gagatcgtgg  300
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<210> 41743
 <211> 379
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E5

<400> 41743

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gaagaggcga ttgtcaacgg tataaataga gcatctaaat gcaagtcaaa aggcgtttct 180
caatgttttg gtgagtttga gcaccgtgct tgcaaacaga aattattgaa tggcatggcc 240
atatcccttc tcaaaactat agaaccaaaa ttggacatag ctggccagta tttagttgtc 300
agccacttca attaggggtt gtcgtagtc agcaggggcc tcaaatccat ggaggttcat 360
cacagttgcg gctacattg 379

<210> 41744

<211> 365

<212> DNA

<213> Zea mays.

<223> Clone ID: LIB3075-017-Q1-K1-E6

<400> 41744

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gctatatgca cgaacgcaa gggcagcacc aagggttgcc tcaaggagct tgcattgttc 180
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cccattacat gctatccatt ggtaacgcac aacagtaaaa tgacagacat gcgacagcta 300
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caacc 365

<210> 41745

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E7

<400> 41745

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 gacaggaatg actactacgg aggagaatct tcgtccctga atctaacc aa gctctggaac 180
 aggttcaagg gcaacgacag cctccccgag cacctgggcg tcagcaaaga gtacaacgtc 240
 gacatggtgc ccaagttcat gatggcaaac ggcgcgctgg tccgcgtcct gatccgcacc 300
 agcgtgacca agtatctcaa cttcaaggct gttgacggga gctttgtgta caacaatggc 360
 aagatccaca aagtcccggc aaccga 386

<210> 41746
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E8

<400> 41746

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 gtcgtgcatg gtgagaaggc aaagtcaaag gacaacgatg caaaagcgtc cgggcccggt 120
 gggtccttcg acatcaccaa gttgggcgcc tacggcaatg gcaagacgga tagcacgaag 180
 gctgtgcagg aggcgtgggc atcagcgtgc ggcggcaccg ggaagcagac gatcctcatc 240
 cccaagggcg acttcctcgt cggaccactc aacttcacag gcccatgcaa gggcgacgtg 300
 accatccagg tgaatggcaa tctgctggcg accacggacc taagccagta caaggatcat 360
 ggtaattgga tcgagattct acgcgtggac aacctgtgta tcaccggcaa gggaaagctc 420
 gacgggcagg ggccagccgt gtgga 445

<210> 41747
 <211> 276
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E9

<400> 41747

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tggggaaaga actgttgaac acacagaaaa tggatcatgtg ttatcaacca ggtctgtcaa 180
 aggaaatgag ggaactaaaa acagaaaagc ggacaatgaa atgatctggc aagctgtgct 240
 tgaaaatatc caatcaaata cattgagaaa aatgat 276

<210> 41748
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-017-Q1-K1-F1
 <400> 41748

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 gatacaacac acaagacaaa tatatatgat aaaccactgg gcatgtttgt tggagctaac 180
 agccatctgc agtgtacaat gtttggattt gttttgttgg gagatgaaac agtacagact 240
 tttgaatggg ctttcaattc attcaaaaca tgtatgggag gcgaggggtcc aagagttatg 300
 cttacagatc aagatcctgc aatgccatt gctctgagaa ctgtatttcc aaaaacagtt 360
 cacagactgt gcttatggca tgtacagaac agatttatgc cattccttga tgagatatat 420
 g 421

<210> 41749
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-017-Q1-K1-F10
 <400> 41749

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 cctggcattg acatcactct taaggagggt gacacatgga tgttcgctgg ccatcaagtt 180
 cttgtactgg aaactcctgg gcatacaaca ggtcatgtgt gctattattt cgctgggttct 240
 ggagctatat ttacgggtga caccttggtc aatctatcat gcggaaagct ttttgaaggg 300
 actccacagc agatgtattc ctcaattcag aaaattacag ctctacctga tgatacaaaa 360

gtatactgtg ggcataaata taccttgagt aatgcanagt ttgccttgag tgtagaaccg 420
ggaaataaag 430

<210> 41750
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-F11

<400> 41750

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cgatggcgga gccggctccg gctcccccg tgaccgcgcg gctggtgggg ctgctgtacg 120
acgagcggat gtgcgcgcac gcgacgccc acggggagga acacccggag aaccccgagc 180
ggctgcgctc catctggcgc aagctcaacg ccgcgggcgt cgcgtccagg tgtgtggccc 240
ttaaggcaaa ggaagctgag gacaagtata tagcttctgt tcacagcaag aggcatataa 300
agctgatgaa ggaaattagc tcaacaatat atgatgccag caggaacaag attgctagga 360
aattcaattc catttacttg aataagggtt cctcggaaac t 401

<210> 41751
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-F12

<400> 41751

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aagaaagggg catcatcgtc agccgttctc ttcgtgctag ccctgacgct agtttgtgcc 120
ccgctgatag cagaagcaaa gaagaagaga gtcgccgccg ccgccgccga ggagaagaaa 180
gtgcaggaca acttctgctc gacgctgtgc gagggcagga aggggatgga cctggtggtg 240
tgcaaggagt cctgcgacct ctcacaacgc tccaacctgg tgctgtacgg ccggatccag 300
tgcaagggca agtgcac 317

<210> 41752
<211> 433

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-017-Q1-K1-F2
 <400> 41752

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 tgggtgaaat aacgcctcat ccgtgcagcc tgtagtatca actgagagga ctgtctacta 180
 ccgggaacgt gctgctaaaa tgtactcatc gttcccatat gctgcagcac aggaaagctg 240
 cttctgtatc ttcttttcat gttccttact ttcacctact tcacgttcta cgggatgggtg 300
 gcggtaggct tgaccccaac acaacaagtt gcagcagtag tgtcatctgc tttttactcc 360
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 tggttctatt aca 433

<210> 41753
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-017-Q1-K1-F3
 <400> 41753

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 aagataaagg taatggagtc gtcacgcagg ttccagccgg ccgtcatcct gcttctcctg 120
 ctattgtgt ccaccgatat ggcacaggca agggaatgcg agaagtacag tgagcgattt 180
 gttggggcat gcatgatcgc agacaactgc gccaatgtgt gccgcggtga gggcttcttg 240
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 tcgctcgatc gctcgccatg catcgacaac ctattcttaa taacgttcat tatctncgtc 360
 ttatttatga cgaatgtcat gtatgttctg gtgactgtca tgtatattct gatgactgtc 420
 atgtatcttg gtcattgatg ct 442

<210> 41754
 <211> 435

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E10

<400> 41754

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aattcagaag cgaggatggc gacgaccgag actaggcggt ggtggaggcg gcacgaaggc 120
ggcgacgatg acccagacga cctcgtcccc atggacaccc aagagcaaga agagctgggtc 180
cgggtctctgg aggctaagca ggcgcagcaa ggccgcccgtt ggaggcgcggt cttcgcgggg 240
ttcctcctat gttacgcggc cttccttgac tactccagtt tccatcatgc ttggtctccc 300
tgagagctgc ggtaccatgc ttacttcatg gaagatttgc ctgcaccaat ggtcataatt 360
gcaggattac tacagaattg acgcccatac aagaagtgga tgtggaattc ttgctatgtg 420
ggcatttggt agcca 435

<210> 41755
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-017-Q1-K1-C5

<400> 41755

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cacacatctc atcgcaagca taaaagcaca gatcaagttg gtatgtgaag gtatccgcga 180
agtgtgcag ctgcctgcgg agaaagagtt atcgcccagg aatacgtggt agaatttggt 240
tctcaatgga gcaggggggtg gtgttctgta aacgtggttc cgtttcaact cttgcagttg 300
aaattattgt ggtgccgaca gtattttaga gcagagaatg acgttcccct tcgtataaca 360
atctcttcga cgacaccacg tacaactcat actgatttct atgntttcat tatgttttca 420
tactgatttg c 431

<210> 41756
<211> 288
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-C6

<400> 41756

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tcatgcatgg tgagaaggca aagtcaaagg acaacgatgc ataagcgtcc ggacccgttg 120
gtcctttcta tttcattaat tttatcgctt tttgttttgg catgactgat agcacgaacg 180
ctgttcagga tgcgtgcgca ttatcgcttct tggtattttt gtagcagacg atcctcattc 240
ccaatggcga cttctctgct ggaccactca acttcacagg cccatgca 288

<210> 41757

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-017-Q1-K1-C8

<400> 41757

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tctggtgacg gtcactggaa aaggcggaca tgctgcaggg ccacaggatg ctgtggatcc 120
cattgttgcg gcacccctctg ccatcgtcag ccttcagctt cttgttgccc gcgaaattga 180
tcccctccag gctgcagtgg tctcggtcac gtccatgaaa ggaggtgatg cttacaacgt 240
cattccagag tcagcatcct tcggcgggac cttcaggagc ttgacaacag aaggcttttc 300
gtatctcatg aagaggatca aagagatcat agaaggtcat gccgncgtcc accgctgcac 360
cgncgncgtc gacttcatgc angagaagc 389

<210> 41758

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-C9

<400> 41758

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gctactagga gcatgcatg gaaaaacctg catgctaggg cactgctgtc acggggttca 120

tcacaaacat gaactacgag cctatcgctc cctaccactt atgctagagc ggaatggcct 180
 gtcggataca tggcaaactc gggatataca cgacaagctt atgcaactgcg gcattacaga 240
 caa 243

<210> 41759
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-017-Q1-K1-D1
 <400> 41759

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 cggcggcggc ggctacggcg gtggcgggcg cgggtggtggt ggcggctgct acaactgcgg 120
 ccaggccggc cacatggcca gggactgcc aagcgggtggc ggcgggtggcg gagggaggtt 180
 cggcggcggc ggggggtggag gcgaccgctc ctgctacaac tgcggcgagg ccggccacat 240
 cgcccgcgac tgtccacgt gaggtgtgtc cgcgtccgtc cagccagcca gatcggatcg 300
 gatcgctcca ccacctgctg gtctgatgg cgccgcenct tctagatctc gcttaaaaaa 360
 acatnccct ctgctgtgt gtccgagt 388

<210> 41760
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-D10

<400> 41760

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 cagagcagac gcccgtaac cattgtagct gtccctgtcg tcgtcatcgt cgtcgtaac 180
 gaatccgcac aaggaaaaga tggagaagaa gccgaccatc ctcatgaaca ggtacgagct 240
 cgggcgcacg ctggggcagg gcaccttcgc caaggtgtac cacggccgga acctcgcgtc 300
 cggcgagagc gtggccatca aggtcatcga caaggagaag gtgatgcgcg tcggcatgat 360

cgaccagatc aagcgcgaga tctccgtcat g

391

<210> 41761

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-D11

<400> 41761

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gttgatcgac tctcaccttg tgccttcctc cactgctgca gagtcgaagg tgttttacct 120

caagatgaag ggagattatc acaggtaacct tgctgagttt aagactgggtg ctgagaggaa 180

ggaagctgca gagagtacaa tgatagctta taaggcagct caagatattg cgttggcgga 240

actggcatct actcatccca taagacttgg acttgcactt aacttctcag ttttctatta 300

cgagattctg aactctccag acaaagcttg caaccttgcc aggcaggcgt ttgatgaggc 360

tatttctcag ttggatacgc ttggcga 387

<210> 41762

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-D12

<400> 41762

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tccatttgct taccctcaa ggctgcagc cgatgcttga tgtgcctata tatggaagaa 180

ttgcaacgat tgagctctta cggcctcata atgagactca tgactttctt ttcattgcta 240

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-D2

<400> 41763

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ggcaagtaca agtctgacta cgtgaaggac cccatcccga gggacgtgtg ggagaagatc 180
tacacctggc tcgccaagcc cggggccggg gtcatgatca tggacccta cggcgccagg 240
atcagctcca tcccgcagga tgcgacgccc tttccgcacc ggcagggcgt gctgttcaac 300
atccagtacg tcagctactg gttcggcgag ggcgacgggt cggcgccgac gcagtggagc 360
agggacatgt acgcgttcat ggagccgtac gtcagcaaga accctatgca ggcgtacgcc 420
cactacag 428

<210> 41764

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-D3

<400> 41764

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ctggtccgat gccagcattc gggatgccac caatgggaag ctactgagat gagatgtttt 180
tttgttgttg ttgcagagag cttagatgat gatttgatat gttcctgtgt aagcagaggc 240
ggaaacctca ttggagtgtg agatggttac attttggaat taatattctt tatggtacca 300
ggaaattttt ggcgagtga ttagtaggtt ggttgagcat gagctggtga aagcttgtag 360
catttgata gtgtgatgaa atctttgtag acattt 396

<210> 41765

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-D4

<400> 41765

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 ccgacgtgga gatcaaagag cacggtggcg atgacttcta ctttacgctc aaggagggcc 240
 cgactggcac ctggacgctc gacaccaagg ccccgctcaa gtacccccctt tgcacccgct 300
 ttgtgtcaa gtccgggggc taccgcatcg ccgacgacgt catccctgcc gatttcaagg 360
 ccgacaccac ctataagacc aactcagca tctaataat ctctggtgat gaattagatt 420
 t 421

<210> 41766
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-017-Q1-K1-D6
 <400> 41766

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 cgaggcggat ctgaaggtga agaaggtgtt cgtgcgcgcc gacctcaacg tcccgtctga 180
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 cccccaaag tacagcttga agcctcttgt tccacgcttg tctgagctcc ttggagttga 360
 agtcgtgatg gccaatgatt gcattggtga agaagttgag aagttggctg ccgctttgcc 420
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<210> 41767
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-017-Q1-K1-D7
 <400> 41767

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tgggtttcttc gacatcacca agttgggagc ctccggcaat ggcaagacag acagcacgaa 180
 ggctgtgcag gaggcattgg catcggcgtg cggcggcact gggaagcaga caatcctcat 240
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 tggtaattgg atcgagattc tacgcgtgga 390

<210> 41768
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-D8

<400> 41768

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 aaagcttacc ttatgatgca ttcttcttca gctttctgtg cccctgaaca tgatgcctgt 180
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 tgttatccag ttgctagttt ttctgatctt gggatctcgg atacaccact aacatcaggt 300
 ttcttgaatg atataacact agcaagtttg ttgaatgtca atttgaagga cctgtcacat 360
 ctcaaccgac aggaacctac caatgatata tca 393

<210> 41769
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-017-Q1-K1-D9

<400> 41769

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 tcccgtcct agccccgact cgcctcatc cccagactca tcgtcagagg cgccctccag 240
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tacgttgca cctgatgata tagaaacatg tacgtgcac agtgtatgga atgcgagtgg 360
 canacacatg gaatgtgctt gcctaaatat ggggtgatttc tttattttatt atatgtctct 420
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<210> 41770

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-E1

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 tgctggaaca cttgattcgt ttgagatatt tgtttggtca atgaaaactg gtcgattggt 180
 ggatgtactc agtggtcagt aaggaccagt gcatggctca atgttttcac caattaatgc 240
 tattctggct tcatcatcat gggacaaaac tgttcgctc tgggatgtct ttgagagcaa 300
 ggggtgcagt gaaacttttc agcactcaca cgatgttctt acttttagctt atcgacctga 360
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<210> 41771

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-C4

<400> 41771

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 aagcataatc tggcggaagg gcgagctcat taagcggctt gtcgaggaga ccaaggccag 240
 ggtccgcac ctcgagggcc ctgtcggcgc caccgagcgt atcgttttgg tctctggaaa 300
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<210> 41772
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-A7

<400> 41772

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tcaagagaaa catctggaca ttgttccgac tagctcatcc cctgaaagga agttttcttt 180
tagttcttgc tcattcaaag ggctcctttt gtccaaagag agctctaaac agcaaactag 240
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tgaagctgct cctaagacac ataaatcagc agaggaccat gatgataga 349

<210> 41773
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-A8

<400> 41773

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gcaagacaga ttcgaccagc tcaatgcact aaacattcag ctggaaactg aagttgcagt 180
cctcaaggat ggcatgaaag agctggatga agatcttgga acttcgcgat ctgagcttca 240
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tagtattgct gttgcaaaag gtaaagggtt gatagtgcag cgtgacagcc ttaagcagtc 360
tttgctggag aagtctggtg agatcgagaa actcacacaa gaactgcagt taaaggaaac 420
attgctgaaa gagttggaag ccaaactc 448

<210> 41774
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-B10

<400> 41774

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ctgctgccat tgttgtgttc acattctcag ggagagctgc gaggttagtt gccaagtata 120
ggccaacaat gccaatttta gcagttatct tcccacgtga aggatccgat ccatcaaagt 180
ggcgttctta tggcacaaca caggcaagac aatgtttcgc agtgagaggc gtgtaccctt 240
tgatggggag tactgatgag gccgaaactg gtgggctaac aaaggaagag tatgggataa 300
aacttgcgat gagctatggt cggtcggttg gcatagtga gcttttcgac aggttgataa 360
tctttgaaaa gattggtgat tct 383

<210> 41775

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-B2

<400> 41775

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tagctgccag gataatggcc tggtgccaaa tgttgtgcct gaaatccttg ttgatggcac 120
tcatgacatt gatcgctggt cttacgttat tgagaccgaa catgctgcct gcatacaatg 180
tgctcaacga gcaccatgtg atcctggatg gtactctcct ggagctccaa catggagaca 240
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<210> 41776

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-B3

<400> 41776

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gaagatgact gcggcgggtg tgtccgtgcg cacgacgacg acgtcgctgc tagcagcagt 120
catcctgtgc ctctgcatcg tctccctctc cccccgcggc gccgctgccg cgcgggtctc 180

ccccggcgcc agcccgatcg tggccacctg catgacgggc ccgtaccgag agctgtgcgt 240
 gggggagctg ggacagcggc tgctggacgt gcagacgtcg atcgcgtecg cggcgcccga 300
 ccagcgcgcg gccaggatcg cgggcgcccc ggtgcagggtg gacgtcaggg cgctggtggc 360
 cgtggcgctt g 371

<210> 41777
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-B4

<400> 41777

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 ccggcatccg gaccttagta tggcctaata ctcactatgt atcatacata ggaagtgaat 120
 gggagccaat ataattttgc tctagacaat tttagcttgc tttctgaacc cttaggtaag 180
 ccttcaagat agtgaaaatg ttaagtgagt agcttacgag ctaaataatg gctagatatt 240
 ctcggtaaaa aaaaaaaaaa aaaaaaaaaa acaaacaaaa aaaaaataa agaaaaaaaa 300
 aaaatgacat tt 312

<210> 41778
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-B5

<400> 41778

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 ggggcaattt gctggaagtt ccattttgga cggagaatct ccagctcctg gatgtgatcc 180
 tggttctcag ggctcaggcc tagattttgc atctcgataa tcaatgtgcc agaactgtgg 240
 tactagttaa aaaatgaccc cagcaatgag tactggtcca gcgggtccaa ggactttgtg 300
 caatgcttgt ggattgatgt gcgcaaacia ggggtaccctg ataagttgcc ccattggcaa 360
 agtgaatct cctgcggttg caactgagca gggaacaagt gacaacaaag cccttgcaac 420

actgaataat aa

432

<210> 41779

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-B6

<400> 41779

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caaggctcgtg gggctgcccgc tgccgccatc ctacgcccc ggcgcgctaaa gacgacgaag 120
gcgcggtttt cacctcgtgt tctgaccatc cagtctaact aatccattcc tgtgctgctc 180
ggcgaaataa aatcatcaaa aagaacaaag acgaaggaag cctaggggaag ggagaaggga 240
cgttgggtgg gggtgagcca aatgagaacg cacggatata tctattgatg taatcttgag 300
atgccctctc aaatcactgt aatggggttt aaaaaacaat cattgtaatg ggagttatat 360
atacttttat cttaacattt atttacacca gcaagtcctg gtgt 404

<210> 41780

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-B7

<400> 41780

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aatgtcgaac atggggcaat ccttccaggc cggcaaggcg caggcccagg gcgagtcca 120
ggcggagcgc gcagcgcagt gcgttaggga cggcgccggc gccaccgct gcgccgtgac 180
cgacaccgcc ggagccgcgg ccgacagcgc gcagctgcag gagcaccgcg ccgccggcac 240
cgttcagcag gctgctgagc aggtggcgca gacggcgggc ggcgcggcg cagccgtcaa 300
ggacacggtg gcgggcgcgg cggcgccgt caaggacacg gtggcgggcg cggcggcagg 360
cgccaatgac gcggtgaccg gcggccactg accgactcac gcgcgtgaac cgga 414

<210> 41781

<211> 325

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-017-Q1-K1-B9

 <400> 41781

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 gggccaaaaa acaacgtacc gagagccgac aaatggcaac ggaggcaaaa gaacatctgg 120
 aaggccacgc cggcaacgta ctgtgacgag gcatcggcgg ccgcgaatgg gatgagctgc 180
 tgctggggcg aagtactttg gccgtactac ctgtaataca tccatgacct gcagctacag 240
 atccggcaga agaccataa cctcaaccga ctcgaggtcc accttaacga cctgaacttc 300
 agagttagaa tgctcaggga tgatt 325

<210> 41782
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-017-Q1-K1-C1

 <400> 41782

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 gccatgcacc cagaaggaag agatgctaga gtcacatggc catatgtgga ggacaaatca 120
 tatctgtgga catggctttt ttttgttccg ctagctgctt acaccctgtg gcaacttatg 180
 tatttccctca tagttaatgt cctgcgtcga cagaggttgt taagggacct tgaagtcag 240
 acatccctaca gggagctctc gaagaaagca cagaaagcga acaacatctg gtggaggctg 300
 agcggactgc tgggtgaccg gaaccggcag gtcatgtaca tactgctcca ggcgctgttc 360
 acagtggcaa caatggcact 380

<210> 41783
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-017-Q1-K1-C10

 <400> 41783

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aaggtgcgcg ccgtggtcaa gttcaacgcg gcgctggcgc accacatcat ggccggcgcc 120
gacgtgctcg ccgtcaccag ccgcttcgag ccctgcggcc tcatccagct gcaggggatg 180
cgatacggaa cgccctgcgc ctgcgcgtcc accggtggac tcgtcgacac catcatcgaa 240
ggcaagaccg ggttccacat gggccgcctc agcgtcgact gtaacgtcgt ggagccggcg 300
gacgtcaaga aggtggccac cacattgcag cgcgccatca aggtggtcgg caccgcgcg 360
tacgaggaga tggtagaggaa ctgcatgac cangatc 397

<210> 41784

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-017-Q1-K1-C2

<400> 41784

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gcagttcagg cagatcgcg agaagaacct catggagcag ttcgacgcgt cgctcgtcga 120
gatgtccgag aactgccgct cgctctccaa catgatctga tcgatctcct tctccacgga 180
cgacaacaga gagccgggcg ttttgggccc tcgcatcggt tgctcgccgt gctaacgttc 240
gcatgcccat gcccgcgagc gcgctctcgc gcgacaataa ctgatgagtt aagtttgttt 300
tgctttgacc atctcacatc gttatttcct gtagagatgc gttaatttgg tctcggaaac 360
ggngaggcga attgaggtgg aatatttata attcaagaaa cacaggtttg gttctagaa 419

<210> 41785

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-017-Q1-K1-C3

<400> 41785

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ccgtcaaata gattggtagg gagcccagag ggtgatggga atggcgaagg agcagcactt 120

cgtgcttggt catggcgaag ggcatggggc ctggtgctgg ttcaagctcc gctggctcct 180
 cgagggcgct ggccaccgtg tcacgtgctg tgacctggcc ggaggcggcg tcgacacctac 240
 cgaccccaac accatccggt ccttcaagca gtacgacaag ccgctcatag acctcatctt 300
 caacttgcca gacggagaga aggtgattct gatcggacat ggcgcttgan ggctgagtgt 360
 gatccatgca atgcatgaaa ttgntgacag gatcgggtcaa gcatttttcg tggccgcaca 420
 atgc 424

<210> 41786
 <211> 356
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-016-Q1-K1-F12

<400> 41786
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 ctcgctgcgc cggcctccca atcgatcgag gcggcgcaga gcagaggaaa accccgagcc 120
 gcaaccctcc tcaccgcaca gcaactcgag tctctgttct cttccccatc ctctcctcg 180
 tcaactccag tcgtcttcag cccttcacca caatcaggcc cacctccgac caccacattt 240
 cttctcatcc aaccgccccg taggatcaca gagaaggggg atggcgagcg gcggggcggt 300
 gagggatgtg ggctcgctg cgagctgga ggcggccgtg gccggggcgcg gggcgg 356

<210> 41787
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-F9

<400> 41787
 gaccactctc atggtcatgg acacgggcat gaggcacat catcgatc ttcacattaa 60
 gttgcttact ggctgcggac gatgcttggc atgttccaac agctaaagt tgagttaata 120
 aattctatca ccctgcatgg gactcatgtt gtttgcaact ggtttagcac gaactggtct 180
 tgttactatt gtgctaattg atttgtttcg aagtttcagt taatatgctg tggaaaagaa 240
 tctggtgcac gttgatgttc tttatgatct gttgttcagt acattgctct gcttcgttgc 300

tacgttaaga atatataat actaacatca gaaaaatgta tgtatatttat gggcttaata 360
gattcagaac tgggaag 377

<210> 41788
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-016-Q1-K1-G10

<400> 41788

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gcgcggcgcg cgtctgcagg cgggggagcc gggcggttg cgacatctg catgaagact 120
ccgtcccccg acctgtgcac caggacggcg gggaagcac ccaacaagta caaggtggtg 180
gacgcggtga cggtgctaga gatgcaggtg gacgcgttca agaagcgcg gaaggcgcg 240
cggaggctcg ccaaggagga ggtcaagacg gccgcgacgc ccgaggcgcg gagggcgctg 300
aacctctgca agacctacta cctggacgcc gncgacaacc tcggcgctg caagcgcgcc 360
atcggttcc gcgacgcgt caccatccgc gccacgatga gcat 404

<210> 41789
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-G11

<400> 41789

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cgtctctacg gtgcctaata agcagccgca tccagggatg gagatgaaga agatcgctg 120
cgccgtctc atcgccgctt cggccaccgt ggcgctggcc gcggaggcg cggtccgtc 180
tcccaccagc ggctctctcg cggtcgcacc cgccatcgtc ggggcccgcg tggcctcctt 240
cttcggtac tacattcact gagccgccg acgaggagcc ggagccggag ggaagagacc 300
aaggtggggg gagagacttg gctgcgtgc gctgctctgc tgctcccgc cattcccgat 360
gcgtgggcgt gctctgattg ggc 383

<210> 41790
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-016-Q1-K1-G12

 <400> 41790

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 tcgcgcgcca cagctgcggt cctctttctac atcctcgccg tcgctgccct cagcgcggcc 120
 gaggcaccgg cagagtcacc gaaggcaggc agtcctgcca aggcaccggc cgagtcaccg 180
 aaggcaggca gtctgcagc tcttgccaag gcacccgagt ctgctgccac gagaactgcc 240
 cccgctaagg cacctcaagc cgctccacc cccgcgctg ccgctgcccc atcgtcgtcg 300
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 tccacggacg angagttgag cctt 384

<210> 41791
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-016-Q1-K1-G9

 <400> 41791

cccacgcgtc cgcgcgtgcy ctgcacctgt gcctctcgcy tgcggaagct aggcaaacgg 60
 ccggcgccct agctaggtgc ccaggccatc gtcggaccct tcgccaagcc atcgtcgggg 120
 tctcggggat tagcaccgc acccacaaga tggccacacc gaacggtcct tctgcttctc 180
 cgatggtgta cctgtctac ctttctgggg tatttcccca gcaaggcggg gatgatcagg 240
 ctcaacgtcc atggatatat gccatacaac agaaccagtt agcagcggcg atgggaatgg 300
 gttgctatgc tacaaccaca ctattcccc tcaattacaa tatcccaaca gaaagcattg 360
 gtgctcctgc tggatgaagag aatgtacagg atgctaggca gcaaaat 407

<210> 41792
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-H11

<400> 41792

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ctccttctct tcaatggcgg cgccccagca atccgctccc ctgtccgggt cggcgcccaa 120
gaggtctcagg gcgatggcca cagacgcgcg tgcagtgcgg aatccccag cctctagtgg 180
ctgccccgcy atgaaggcgg agttcgccaa gcacgccgag tacctcaaca ccctgaatga 240
caagagagaa aggcttgtga aagctagtcg ggatattaca atgaacagca aaaagggtcat 300
ctttcaggtc cacagaatca cgaaagttaa cagggacgaa gttctctcga aggcagaaaa 360
tgatcttgct gcagttgtta atcaatacat tggcaaacta gtaaaagaat ta 412

<210> 41793

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-016-Q1-K1-H9

<400> 41793

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ctggaccccg gcgaggccaa ggttgatgag gacatcacta tgactacgac tacaccagca 120
gcacctccac atcaagcgcc acttccttca ttagctgggc caatcactcg ggcccgtgcc 180
agagatctta acttcgtcat gctactgaag aatgagggcc cagaagaata gacgaccaac 240
ccaactgcgg cccatagtgg acgacctang gatggccgcc cctaggggtt gcgccccctc 300
tctatttatc aaggagctac gcctcatttg ttcttgaggt tttgttttac gttagctnta 360
gctactctcg aacacgcgca aat 383

<210> 41794

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-017-Q1-K1-A1

<400> 41794

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gagtatagcg gcaccaacaa caagaccatg gctatatgca cgaacgcaa gggcagcacc 120
aagggttgcc tcaaggagct tgcattgttc tagaccctcc gtcgactgac ccatctctct 180
agttataatt tttctctcgt ccttgcatg catattagtt gctatccatt ggtaacgcac 240
aacagtaaaa cgacaaacat ccaacagcta tattatgttc gacggtgtaa caccctgaat 300
tttaggggtat aaaatttctt ctctaaatgc aaaccaaatt cagggtgtaa aaaaaaaaaa 360
ccaanaac 368

<210> 41795
<211> 278
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-017-Q1-K1-A10
<400> 41795

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agcaatggga cccatgggct ggaacgttca gaagcgcaac tataagctga agctgcaagg 120
ggagaaccct ggaacgaaag gtgagctggc catcgcaaca gaggttatcg atggtcacgc 180
cttgcatgta catgcgtgag ctgcgcaagt tcaacagtga cacccttgaa taccacaagt 240
gataccacat catttaacat gggctgaacg acgtgatg 278

<210> 41796
<211> 325
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-017-Q1-K1-A11
<400> 41796

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gctgcgggcca ccttgagca aacaggtggc gaaaccgaag agccgaccat tgtagcacct 120
gctaatgaat atacagtga ggaggctgct cctcagcaga agtgtgcaa gatacacgac 180
ttttgcctag ggataccttt tggtggactt ttactctcca tgggccttat tggatttctc 240
ttctggagga gccctgcgag tcttaccttt ggtgttgac ctggccttgc catattggcc 300

ctggctgtac ttagcctcaa tgtct

325

<210> 41797

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-017-Q1-K1-A2

<400> 41797

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aaattacggc gatgatgagg ggcaaagtag gtaggcaaca gcgaacctaa ccaactgaag 120

aaaaaactct acaaattcac ctacacccgc agggctttct caacttcac accaagacat 180

agattagggg gggtagacat tcatcaccca tgttttattt ccgacaatca aatcccaacg 240

agcatagcac cgaccgaact gacacatcgc atgcataatg tgttcacccc tctctaggag 300

gggggcaaca ccgttctaca actaaaaaac ccaaaccaac taaaaatcca ccgaccacga 360

gtgtgcagtt gaccattat tcctncgnct gatcaacatt acacac 406

<210> 41798

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-017-Q1-K1-A3

<400> 41798

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gccgtgtgga gcaagaactc ctgcaccaag aagtatgact gcaagatcct tcccaactcg 120

ctggtgatgg acttcgtgaa caacggggag gtgtccgggg tcacgctgct caactccaag 180

ttcttcaca tgaacatgta ccagtgaag aacatgctga tcaaggacgt gaccgtgacg 240

gcgcccgggg acagccccaac cacggatggc atccacatgg gcgactcatc cgggatcacc 300

atcaccaaca ccgtcattgg cgtcggcgac gactgcatct ncatcgggcc tgggacctnc 360

aagtggaaca tcaactggcg 379

<210> 41799
 <211> 362
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-017-Q1-K1-A4

<400> 41799

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 cagggcatca gcgtcggctg cctaggccgc tacaaggacg agaaggacgt gagcgacatc 120
 acggtgcgga actgcgtgct caagaacacc accaacggcg tgcgcatcaa gtcgtacgtg 180
 gacgccgagt ccgtgctgac ggccctnccat ctcaccttcg agaacatcag gatggaggag 240
 gtggccaacc ccategtcat cgaccagtac ttctgcccgc agaaggatat ccctggcaag 300
 cggagcaact cctcgcatgt ctccgtcaag gacgtcacgt tccgcaacat caccggcacg 360
 tc 362

<210> 41800
 <211> 292
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-017-Q1-K1-A5

<400> 41800

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 caaagacgcg gacggcgga gctacaagcg ggcgagtcg atgccgtcga ccccgacgac 180
 gccggtgacg ccgtcgtcgt cgtcgtcgtc gacgacgccg cgcggcgccg gcaacgtgtg 240
 gcgcagcgtc ttccaccg cgagcaacct ggccaccaag ggcattggcg cc 292

<210> 41801
 <211> 323
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-A9

<400> 41801

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 ccgaaccgct tcgactcgga ctcgactcg gagtccagca ataagccggc gaacaagtcc 120
 ggggcgtcgt cgtaccaagc ccccgccgac gccagaagc ggtacaagga cgggttccgg 180
 gactcgggcg ggctggaaaa ccagtcgggtg caagagctgg agcactacgc ggcgtacaag 240
 gccgaggaga cgacggacgc gctcgccggc tgctcgcca ttgccgagga catcaggcag 300
 gacgccagcg acacgtgat cac 323

<210> 41802
 <211> 306
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-016-Q1-K1-B11

<400> 41802

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 ccgtgacggc gcccggggac agccccaaca cggatggcat ccacatgggc gactcatccg 120
 ggatcacgat caccaacacc gtcattggcg tcggtgacga ctgcatctcc atcggtccccg 180
 ggacctccaa ggtgaacatc accggcgtga cctgcggccc tggccacggc atcagcatcg 240
 gcagcctang gcggtacaag gacgagaagg acgtcacgga catcaacgtc aaggattgca 300
 ctctta 306

<210> 41803
 <211> 391
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-016-Q1-K1-B12

<400> 41803

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 gtctgcacc cctctcctt cttgaagcga agccccttga aatgaatgaa ccatgcatgc 120
 atgcatgtat gcatgcgccg gggtagctg gcgttcagct caggcgctga gcgagtctat 180
 acgtacgtcg tcaccggctg gccacgcatg cgataaccat ctgatatgga cggaactata 240

tattgtattc ctattaatct ggcattttct aagctaattg ttttttttcc aaatataaccg 300
 tcgatggaac tccaaatgta atgtcacgca natgtgtgtt tttcatcgat tgaatggata 360
 ataataaaaa ggcattgctgg cagggtactac t 391

<210> 41804

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-B9

<400> 41804

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 ggacaccaag gagctcgtcg ctatgaagta catcccagg gggctcaaga ttgacgagaa 120
 tgtggcgagg gagatcataa accaccgctc gttgcggcac cccaacatca tccgcttcaa 180
 ggaggctcgtg ctcacgcca cgcaoctcgc tategtcatg gactacgccg ccggcggcga 240
 gcttttcgac aggatctgca gcgcggggag gttcagcgag gacgaggcga ggtatttctt 300
 ccagcagctt atctgcggtg tcagctactg ccacttcatg caaa 344

<210> 41805

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-C10

<400> 41805

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 gcaggctgct gctagccgtg gcggcggcgg ccgtgctcgt ggccgcggca gcgcaggcgc 120
 aggagacgtg ctcggggacc gtccccgcgc cgccgcgccg cggggcgcgg gtgtccgtgg 180
 ccagcttcgg cggcgcgggc gacggacgga cgctcaacac ggccggcgttc gcgcgcgccg 240
 tcgccagcat cgagcgccgc gccgcgccg gcggggcgga gctctacgtg ccgccggggg 300
 tg 302

<210> 41806

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-C11

<400> 41806

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ctacagtcac ttgtaccgat cctcgaccaa tctgtgggtg agaagaccgt gaaaccgtgc 120

ctcgttgagc tcagcgagga ccctgacgtc gacgtaaggt actacgcaaa ccaggcactg 180

caggcgtgcg accagatgat ggtgtcaagc taactagcct ttgtgtcaag tatttagaga 240

gttcgatcga tgctccatag tccaattttg gattacctgt aatttggcct ttagatttga 300

agagttgttt gtgtctagcc tcggtaacag ataaaaacgg gacggcctga tccccttggt 360

cgtttgtggt aattaatggt gtaattgagc 390

<210> 41807

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-C12

<400> 41807

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ccgccacatc tattaggtgc agccatgggt gcctgtgcaa cgaagcctaa gacgcttgag 120

gggaaagccc cagctgaggc caccatctcc acaccaagg ttgcacctga gaccactgcc 180

atccacattg aggttgcggc gaaacaggca gtagttgaga aggtggagga ggacaaggag 240

gaggcactaa cagtggcggc gaaacaagag ccagcagcca ccatcgagcc tcaacagatt 300

gctggtgagg tgaccacttc ggaagtggcg gtcgtcgttg tcgagcctga gaacaa 356

<210> 41808

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-C9

<400> 41808

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agcttgacag cttgaagggt tccggtgatg tttggttcgg ttctggaatt gtactgaagg 120
 ggaaagtgac catcactgca aaacctggcg tcaagctaga aatcccagac ggagcagtga 180
 ttgggaataa ggatatcagt ggccttgagg accttttagat aagaatcagc gaatcagcaa 240
 ggaggctcac ttcgccaagt ggcggatcat ttttcgtgtt tttttcctgt atattcaaac 300
 aggttccatg atattatgga gaatattaat tgccagtata atccagaaat tttacatgta 360
 ttttactttg agggaaatgt tttacacac 389

<210> 41809
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-D10

<400> 41809
 aaaacatggc tgtgaatgtg agaaccatgt ggtcgtcgat gcggggcacag gttgcgatgg 60
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 gcaagaacat cacggccacc tatggcaagg actggctgga cgctaaagcg acatggtatg 180
 gcaagccgac ggggtgccgt cccgacgata acggtggcgg ctgcgggtac aaggacgtga 240
 acaagcccc cttcaatagc atgggcgcat ggggcaacat ccccatcttc aaggatggtc 300
 tgggtttggg gtctgtcttc gagatcaagt gcgat 335

<210> 41810
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-D11

<400> 41810
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 ggatgccaaag gtgccgttgg ggcttcttcc acgttgtcaa caacgactac acgcactggc 120
 tcatgtacgc cattggcggc ggcgacgcgc caaccatcat cagccagggc aaccgctaca 180
 tagcaccacc aaacatcggc gccaaagtga tcaccaagca ctacgcggaa gaaggcgtgt 240
 ggaagaactg ggtgtggcac acggaggacg acctgttcat gaacggcgcc atcttcaata 300

cgctccggcgg cgcccccaag caggtcgcaca ccaacgagtg ggtgaagccc aagccaggaa 360
cctacgttac a 371

<210> 41811
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-D9

<400> 41811

aagctgggtcc tcaccaacat ggcggagaca ccacacacgg acgccgtacg cgtggacatc 60
gaggagggta ggaccatggc atacgacaat acaccgaaag cgcccttcga tgctaccact 120
cctaacccea actccgcctc ataccatac tcattcattag atgcgccta caacagcagc 180
ttctacgact agacacaaaa acctcttcat tctctggaat aactaacagg atatacgttg 240
caccctgatg atatacaaac a 261

<210> 41812
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-E11

<400> 41812

gagagagaga gacgcatgcc cgccggcgtc gatcgaggag ggaggaacca gagacccggc 60
ggcggcgacg atggctccgc gcagctcatc ggcggcgacg tgctgtgcc tcgctctcgc 120
cgcggccacg ctggcgctgg ccacacgtgc gcaaggagga ggaccatcgg catcggcggc 180
ggacctggac aaggtcacgg ccgagacctt ctctgacatc gagatcgacg gcaagcctgc 240
agggcggatc gtgctgggac tgtttgggga caccgttcct aaaactgcag agaactttcg 300
agcactttgc acaagggaga aaggaattgc caagtccggc aagcctctgt ggtacaaggg 360
gtcgacgttc cacaggatca tgcccggggg catgat 396

<210> 41813
<211> 382
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-016-Q1-K1-E12

<400> 41813

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gggcggaaga ggatgagcgc gtccaggttc ataaagtgcg tcacggtcgg ggacggcgcc 120
gtcggcaaga cctgcatgct catctcttac acctccaaca cttccccac cgactatggt 180
ccgacagtgt ttgataactt cagtgccaac gttgtggttg atggtaacac tgtcaacctc 240
ggcctctggg aactgcagg tcaagaggat tacaacagac tgagaccact gagctatcgt 300
ggagctgatg tttttcttct ggctttctca ctgatcagta aggccagcta tgagaatggt 360
tcgaaaaagt ggatacctga ac 382

<210> 41814
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-E9

<400> 41814

gcgaccgagc cgcggtttc acccctgtct ttccttctcc ccgtgtccag gccctggtgc 60
ccgcgcgttc ccgtgcggca actggccgcc gccgccgcac tacgccagggt gccaattcc 120
tcgtcgggtc ctccgccggc gacgagcacc caccagaaaa ctggagtgga ctctacatgt 180
caagacagta tggcgccagg aagcaaggcg gagaggaaag cagcactaga cgctggcgca 240
tggatgttca atgtcgtcac atccgttggt atcatcatgg tcaacaaagc cttaatggcg 300
acgcatggtt ttagtttcgc tacaacgttg accggacttc atttcgcgat gacgaccttg 360
atgacattag taatgaaatg gctgggatat att 393

<210> 41815
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-F10

<400> 41815

cggacgcgtg gggttttcta aaattggatc ttcgatgcta tttttcaaatt ggtatagagc 60

taattttccc aactcagaac tgaagcacgc ttctacttcc tttctcggct ctcaacaacca 120
 tttcccctcc cctcgttccc aactattgga actgaagcat ataggctctg aggagaagca 180
 agactgaata aggtcaatat cttgggctaa caaggctgct attgttggct ctgaggagaa 240
 gcatcatatt ctcccatgat tactcttggg gggttgtctg catctcattt tgctctgaga 300
 aagaaaattt tctctctggt tcacttgacc gtactgttct cttatgggat caacgggctg 360
 aaaaatcaca ggtttgacca tataatatat a 391

<210> 41816
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-016-Q1-K1-A12

 <400> 41816

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 tgggaaacca tattcagcgg gtcgtctcat gttctccgc ctctcacaaa actatgctct 120
 gcattcttgt catcgtctgt ggagaaacgg cctgttgcaa acgagtgagc cgccctagaa 180
 cattgtcttc tcatacaacg gtaggtatac tcgccagttg cagaatggaa atgcggaagg 240
 aaatccgtcc gtgacgatgc atatgccac ttgaagagtt cagagatgct gggatgatgcc 300
 atctgaggtt ggttatggtt atacagatat cacacggccc acgaggatca ttttgcagcg 360
 atactcgacg gccaacctac tgatcgcagc aattttgttt tcttctccgc ttgacatgta 420
 atcctgacaa gtaaactaga aaatc 445

<210> 41817
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-015-Q1-K1-G6

 <400> 41817

cggactcgtg gggacaaagt atacatttta tagtttaggt ttgataatgg atccaaaata 60
 tgttagccta tgcattctcg tattacttgt attgcatgga gatactactt tggcagaaac 120

ttgcagggag tttgctaaat ggcattcatt ctgctttagt gcaatgtgca aggcaaattg 180
 ctttatagaa ggaaaaagct ccgatgggtc ctatgcaaag ggatatagat gtgattcaca 240
 tggatttcat tctatgtgta tttgcctttt gtgtaaaagt tagttatctt aagacaagcg 300
 gggatatatt ctatgttcat atccgtcatt taggggtgtg ttcaaataat tttatgggat 360
 aataattaac tagtttgttt acttctagat atatgtaata ctacttaaat aatccttatt 420
 t 421

<210> 41818
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-G7

<400> 41818

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 gacgagctct aggtgatgta cgaggtgctg aagcagccga ccgacggcgc caccggccgac 120
 accctcggct cgtccttcgc gatcaatgtc gtacctgctc gtacgacctc gtagcgccgt 180
 catagactgt ccgatcggac agagcagcta ctagcagccg tatgccgacg gcgacaccta 240
 ggaggaagac gatgaggagt ggaagctcat gcgcatgctc accgaatgac gacgtgatca 300
 agagctatcc gct 313

<210> 41819
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-G8

<400> 41819

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 cgactacggc aagggcgagc gagaggcgca gtgggtccacg gcacacagga cgctgcacgg 120
 tctcaaccag gccaccgtca gctgcgacct cttcggtgac aaccagggct accgcgagct 180
 gtcagagctc gccgagcatg cagccaatcg cgccgagggg gccaggctca gggagctgca 240
 cacgctgaaa ggacacgtcg agtacgtcgg ctagctcaag ggcttatgca ttgacacat 300

tcagcagagc tacaccgcgt atactcgact cagaagacta gctgatatgt tgtgcaaact 360
tattcaatgc acacacatct atata 385

<210> 41820
<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-G9

<400> 41820

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tgggtattct taaagggtgt acccactttt ggtattaaaa attttttgaa aaaaaagggtc 120
ctgaagaata aacatttttg tcttattgcc ttggttttat 160

<210> 41821
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-H1

<400> 41821

gagaggagga ggggaggtgc gccaccggtc agcggaaacc tcgggtgtcg tcgaccaacc 60
tcgtcgatcc ggttgcgacg cgggtgtgcta gaataactac cgaccatggt ggaggaggag 120
atcaccgagg gcttgaagaa cctcaccgtc accggagacg cggcggcttc gggcggagaa 180
gggcagagga ggggcggcgg catcagcagc aaccgcatcc aggtgtccaa caccaagaag 240
cccctcttct tctacgtaaa cctcgccaag aggtatatgc agcagcacgg cgatgtggag 300
ctatccgctc ttggaatggc catagcgaca gttgtgaccg tggcagaaat tctgaagaat 360
aatggatttg ctggtgaaaa gaagatcagg acatctactg ttgacataaa cgacgaatca 420
cgagggcg 428

<210> 41822
<211> 176
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-H11

<400> 41822

cccacgcgtc cgcagcatgg tcgccgtcgt cctgggtgcc atcgccacaa taccgctggg 60
ggaggaagcc attccggggc cactgccgga ccattgaacc accgcaaaaa attccaaggc 120
cacattggac gccaaaaccc ggaaggcttt caacggcttg ttggcgcgcg ttccgg 176

<210> 41823

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-H12

<400> 41823

cggacgcgtg ggcggacgcg tgggtgctac aaaaaataaa ggtggtttga gggaaagcgt 60
gtgggtaact cggcttttgc caaaagcatc agtagaattg atggaggcaa caccatgcaa 120
tgtagagaat gctgttagtc cacaggctgt gggtgacaag ttgtgttgc cacctcttca 180
gaattttaat ttggagaagg aactaaataa tatacaatac ttcactggaa gaggaagcag 240
cgatggtgta acaagtagta aatgtccagc aacgcctcca gaggaaccta agcaatctga 300
aacaatggct tctgtttttg caaagagatt ggatgcactt agacatgcaa acacctctgc 360
agtaagcttg gctatcgcgt gtgagcatgg aagtcccaa ctgagaaacc aaaaaac 417

<210> 41824

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-015-Q1-K1-H2

<400> 41824

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tgacatgtcg tgtagtttt actatggatg catggacatc tatacaaaac aaatcgtact 120
tatgtgtcac agcacattgg attgatgata attggaacat gcaaaaaagg attatcaatt 180
ttatgcatgt agaagacagc catgatggga taaaattgag tgatattttt tttgtaaatg 240
tgctcaattg gaaccttgat aagaaaatgt ttgctctttc tttggataat gctgtggcaa 300
acaaggttgc agttgatata gtgatagata atgctaaaga cttgctcata tgtggtggaa 360

agttctttca tgtagatgt gcaaatcata tattgaacct ttgtgctaaa gatggcttan 420
cagtaatgag aaatgc 436

<210> 41825
<211> 141
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-015-Q1-K1-H5

<400> 41825

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gtggttcttt tacctacgcg tgggtctaca caaaatacat accatccaca ttaacgacat 120
caaccactgc tggaacaacc t 141

<210> 41826
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-015-Q1-K1-H6

<400> 41826

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ctcagggagc atattaagaa acggccacca ttggctacct ctgagaaagt tcaacaattt 120
gtgagggcac gggggagaga atcaatgggt gcaggatttt atcacgaagg ctatgaagat 180
ccattgctta tgctgatgag aaggagaact gttcatgctg gactagtgtg gaagggtgag 240
gaagggtgcgc tttccttgac aaccaaggaa agatcagccc atgcatcaaa aggactccct 300
gttaaccact gttcanggtt tcggacacca agcggcataa atttctctga gactgatggt 360
attcctagag aaagcttcan ggtcattgtg aatgcccagg aacttggttn tgaatccact 420
gaaactccaa gaactg 436

<210> 41827
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-H7

<400> 41827

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cttcactaaa cacagcgagc aggggtgacag gtaccgtgaa ttggcacatc gggttgatga 120
tgcccttggga ttcatgggtg cagctgggct aacagtggac cagcctttga cgacgatgat 180
cgagttcttg acctcacatg agtgctctct cctaccttac gagcaagcct taacccggca 240
agactccacc accggtcttt tctacgactg ctccgccac atgctctggg tcggcgagcg 300
caccggcag cttgatggcg cccatgtgga gttcctgagg gggatcgcca acccccttgg 360
catcaaggtg agcgacaaga tggagcccg cgagctggtg aagctgatcg acatactgaa 420
cccgacgaac aa 432

<210> 41828

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-H8

<400> 41828

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tgatgatggt ctgtacttga agaaggtatt tgaggctatt caagaattgc tcagtcaacg 180
tcttatttca gcaggccatg acataagtga tgggtggcctt attgttagtg ttcttgagat 240
ggcatttgct ggtaactgtg gttttaagct tgacatagac ttagaagata ggagccttat 300
tgaaggactt tttgcagagg agcttggcct cattattgaa gtacactcga aatatctcaa 360
cattgtgaag caaaagcttg aaatagcagg catttctgct aatgttattg gagacgttac 420
tagctcacca g 431

<210> 41829

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-A10

<400> 41829

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cttcgcatcc gtccacagcc cagaggggtga gatgtacatg ttacctaccg acctgatgag 180

ggcgggtggt cctgttttcc cctcatctga gtccaaaaat gtcagggaag ggagattgaa 240

aggggagcgc caccctggcg agctacaatg tgctccatct gagtttttca tgctattcga 300

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<210> 41830

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-A11

<400> 41830

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aggctgcgga ggcgtacctg gtgggtctat tcgaggacac taatctgtgc gccatccatg 180

ccaagcgcgt gaccatcatg cccaaggaca ttcagctggc taggaggatc cgtggtgaaa 240

gggcctagat tctctgttta cggctactgg gagtggctcc gtagtatggt ttgcatctgt 300

tcgatgcttg cttttgtgga agtttacatt tgtgggtggt cgaattcgta atattcatcc 360

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cattagtgt 429

<210> 41831

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-G5

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ctctcttaat tcgttgtgtt cgtggtgaca taatctgtgt gcggaccgaa tttagaataa 120

agtacaggcg tccgtctgat caaataagca ccggtgttgg tgctctatag atgaatatat 180
 ccggtgattt tcggcatggg aggcattggc acatttttgt ctgagttctg gcggtagcaa 240
 gaccggagta ataaccatca ggcgtttcta tgttggttac gtgccgcacg catgccgggc 300
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<210> 41832
 <211> 221
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E9

<400> 41832

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 ggacatagct cagggcggtg aaaatctgtt ggaagatgca cggaattcaa gttcaagagt 180
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<210> 41833
 <211> 276
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-F1

<400> 41833

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 gagtcattgg actcactttc acgcatccat gaacggcatc aaccccaacc tcggattcct 180
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<210> 41834
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-F10

<400> 41834

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gtatgagatg ttctgcagca agggcctaag accttcactc agcgacatct gctggagcag 180
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cttcggagat gcaattacag tccatcctct ctttcttttc ccctttctca aagagctagg 360
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<210> 41835

<211> 365

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-015-Q1-K1-F12

<400> 41835

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aaggaggatc ggaggagag gctgctggct gccattgcct gtattcggtt ggatcccggt 180
tatatatata tatatatatt taagtacttt aatttgggtc tgaacatgct gattgatcca 240
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agaatgggag acactattcg tttggacatg acaatcggaa attaataat acccatttgt 360
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<210> 41836

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-F2

<400> 41836

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catcggcccc gggacctcca aggtgaacat caccggcgtg acctgcggcc ctggccacgg 180

catcagcatc ggcagcctat ggcggtacaa ggacgagaag gacgtcacgg acatcaacgt 240

caaggattgc actcttaaga agacgatgtt cggcgctccgc atcaaggcgt acgaggacgc 300

cgtcttcgtg ctcaccgtct tcaagatcca ctacgagaat atcaagatgg aggactcagc 360

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<210> 41837

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-015-Q1-K1-F5

<400> 41837

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acgccagggt ccttggaaca ctatatccag gagcgacgaa gtgatccacc cgccagccat 120

ggagatgaag aaggtcctct gcgcgcacct cgtcgccgcc gcctcggcca ccgtcgtgct 180

ggcctcggtc gctccgagg cgccctccga ggcgcccgcc ggcgcggccg gtggtgcggc 240

tggccctagc gcaagcggcg ccgcgcgtcgt cgtcgtgccc gccgtcgggg cgctcgtcgc 300

ctccttcctc gcctactacc tncactgagc gacgacgcgc ggtgcggcaa cgttgggatg 360

catcgtgttt ggttcacccg attaatattt tgggtttttt atttacgtgg tttgcgattg 420

gttaa 425

<210> 41838

<211> 367

<212> DNA

<213> Zea mays

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gcaccaacaa caagaccatg gccgtatgca agaacgctaa gggcagcgcc aaggggttgcc 120
tcaaggagct cgcattgcttc tagaaccacc atcgacccat ctctctagtt atacaatgtg 180
tttggttggtt ggatgctgag agattgggttc tcagctcaga tgcaagctgc gcctagcctg 240
tgtaggtttg tgctggtaca ttgagagctc ttatttattt gctttgattg caattaacca 300
ggatgaccat agcccttggtt tggtttgctg tttttataag ttgcatgaac acaacttctg 360
tttggtt 367

<210> 41839

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-F7

<400> 41839

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acttcaacat caactggagg ggctccaaca acaagaccat ggccgtatgc aataacgcta 120
atggcaactc caaagtttac ctcaatgaac tcgcatgctt ttaaaaccac catcgaccca 180
tctctctaga tatacaatgt gttttgttga ttagatgcta atagattctt tctcaaa 237

<210> 41840

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-F8

<400> 41840

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gacccgaaag tgatggaagc atatgaactt attggttccc tgcttggttg gaagggtgaa 180
gatgtacaag ataacaagaa ggaacaagga gagaagcctc aatgagcccc gccgctgata 240
aaaacgggtgc tgtattttttg tttgtctaga aaacatccct cgccgtgtgc aatagcaata 300
gtatgatatc ccaacttgtc aactgttgca actgcaagag ctctgcagtg ttgcttttgt 360
aattgacgaa tgtatctgga aaatttgac gtattggccg tcttttcctt gggtttgagc 420

tctctgacaa ttc

433

<210> 41841
<211> 285
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-015-Q1-K1-F9

<400> 41841

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ttttctcttg ttgaatccgg ctttaattca tgactagaga ctttagagta ttatcagtc 180
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tcagcttgtg attcatcagc aagacgtag ttgtcatgta caana 285

<210> 41842
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-G3

<400> 41842

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cgagcccagag gtgatgtacg aggtgctgaa gcagaggacc gactgcgcca cggtcgtcga 120
cctcgcccgg gccttcggcg caatgccgta cctggtgttc gaccccagg cgcctgtgat 180
gtccggcgcc gagagcagcg actcggagcg gtcggccgcc ggcgcccgtc aggaggaaga 240
cgatgaggag tgggagttca tgcgcccgtt caccgtctga tgacgtgcc gtcgtccgc 300
cccgggtgaa acaaggcgag ttcgtcgcca 330

<210> 41843
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-G4

<400> 41843

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tgctggccaa ggcgcccgtg ctgggctgcg ccgggaagat gcagaggcag cggcaacggg 180
ggtccgcgct gggcaggtgg atttgccgtg ccgtggcgcc gccgaggggtg cggctcaggg 240
acggccgcca cctggcgtag gccgagtcgg gggccagcaa ggaggacgag aggttcaagg 300
tcgtcttctc ccacggcttc accggctccc gcctcgacac cgttcgtccg gcgcccgaag 360
ttgoggagga gctgggcgtg tacatggtgg gtttcgaccg cgccgggtac gggcagagcg 420
acccaacct caccggtc 438

<210> 41844

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E7

<400> 41844

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tcggacaaag ccggggccgt tcggcgggag gcaggggacg cacgggcagg cagccatgaa 180
cggcatcaac cccaacggcg ggttcctgtc gtacgggaac atggagagct acgcgatgtg 240
ggtggcgacc ggcgtggcgt cggccttctt cgcgtccctc gagecgtgct cctgcatcca 300
cctccacacc gcggaggacg acggcgctga ggaggaggag gacctcgagg agggccgccc 360
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<210> 41845

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-D11

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ccagccggcc atcatcctgc ttctcctgct cattgtgacc accgatgtgg cgcagcgccg 180
gagggaaatgc gagaaggaca gcgagcgatt ccttggggca tgcagggcgt cggacaactg 240
cgccaacgtg tgccgcggtg agggcttctc 270

<210> 41846

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-D2

<400> 41846

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ggtgagccgg cacacgatcc aggtgtaccc ggggtcatgg acggcaatca tgctgacgtt 180
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gcagttctac atcagcgctg tctcgccggc gogatcactg cgcgacgagt acaacatgcc 300
cgacaacgcc cttcgctgcg gcaaggctcg ggggctgccg ctgccgtcgt cctacgcccc 360
cgcgcgctaa gacgacgaaa gcctcgtttt cttctcgtgg tctgaccatc caatccaaac 420
tcaaaagaac aaa 433

<210> 41847

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-D4

<400> 41847

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ccctcttgag cccccatat tagataagct cataaatgca taacttgcat aaatttaaga 180
gagaaaccca tatatgcggc atctattcac agatggttgt cttttactaa aattcagttc 240
tgtccatttt aatgcactat 260

<210> 41848
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-015-Q1-K1-D5

 <400> 41848

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 ggtgggaaga agaagatgaa gaaggccact tcgctctccg agctgggctt cgacgccggc 180
 gactcgtcgt cgggcttctt ccgccctgtg tccggcgact cgtcgacgcc gacgtcgag 240
 caccaccggc ggaggctgac caaggtgtcg gtcacggcg cgggtcaacgt ggggatggcc 300
 atcgcgcaga ccacctgac gcgcgacctg gccgacgaga tcgcgctggt ggacgcggtc 360
 ccggacaagc tccgcgggga gatgctggac ctgcagcacg 400

<210> 41849
 <211> 276
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-015-Q1-K1-D9

 <400> 41849

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 aaatcccttc gtggatggaa ggggtttgag ggacaaatta gtttattttc atottaatcc 180
 cttctaatcc ccgggtgatt tgagtttaca aactagcctt tagagtaaag atttaccaca 240
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<210> 41850
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-015-Q1-K1-E1

 <400> 41850

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ttagtttggt tcttgcgaga tgataagtgt ttattactta tgttaattta agtatgtttt 360
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<210> 41851

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E10

<400> 41851

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tgccagcggg gctgacggcc gtgctgatca agaacctcta cctgtcctgc gacccctgga 180
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tcggagaggc catggtgaat ttccggtgtgg gcaagggtgg cggtcgcacg caccctgagt 300
tcaccgccgg tgatcttgct tgggggctga gtgggtggga ggagtacacc ctcgtcaccc 360
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<210> 41852

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E11

<400> 41852

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ccacctaagg aggtagggca acatcatcat cacggactaa aacatcgaga ccaccgacga 120
cactatctat cattgtctcc catccaacct cactcttcg 159

<210> 41853
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E12

<400> 41853

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cggcacgtcg tccacgcccg aggccatcag cctgctctgc tcggagacgc agccatgcag  180
cggcgtctcc ctcatcgatg tcaacgtgga gtacgccggc aagaacaaca aaaccatggc  240
cgtctgcagc aacgccaagg gcaccgccaa gggaagcatc gaggcactgg cttgcctggt  300
ctgatgatga ctttcctttt gcatgcatgc atggtatctc atccttgatg atgatctagc  360
tcactagttc tttttaattt ccgcttcatt cgcttttcca aattcgattg tgtttcagcc  420
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 <211> 426
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-015-Q1-K1-E3

<400> 41854

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cagggccggg tgcagggtgaa ggtgatattg ctgcaccatc tgggagagga ggggctcagc  180
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tgatca                                           426
  
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<210> 41855
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E4

<400> 41855

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<210> 41856
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E5

<400> 41856

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gtctttgtca cat 433

<210> 41857
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E6

<400> 41857

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<210> 41858

<211> 401

<212> DNA

<213> Zea mays

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<400> 41858

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<210> 41859

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B5

<400> 41859

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ccggtgggtc cttcgacatc accaagttgg gcgccttcgg caatggcaag acggatagca 180
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<210> 41860
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B6

<400> 41860

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cacatgacca gcaccaacta aaatgaagac ctaagggcct ggtaatccaa ccaagtgtgc 300
tctttccccc ccgaaaaaag atgcttccaa gattaaattt ttttcattgg aattgcttaa 360
acctaggttg ggggtatcct agtggttggg tgagcattaa tggctcatat ttggtcaggt 420
ctatgtgtcc 430

<210> 41861
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B7

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gctgcagctg cgggcggctc ttcgtcttcg tcgccgacgg ggcgcgcggg gccggagtgc 300
aactgggtggg gcgctgccgc ggggcagcag gcgacgccga ggcggtcgag gagcggcagg 360
gccgcggctc gcgcggtgcc cacgggcaag gggaaccgcg agctgggtgag acgggcgctc 420
acg 423

<210> 41862
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-015-Q1-K1-B8

<400> 41862

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gtaattgaca agtcatttgg ttctgacaca gcagtcgagg aggctcaacg tgcaataaat 120
gctgctcatg tggaagctgt aagtgctgag aatgggtatag gtcttggtcaa gctaattgggt 180
cggcacagtg gttttattgc acattatgct actctgggta gcagggacgt ggattgttgc 240
ttgatcccag aatcaccatt ctatttgga ggcgaaggcg gacttttttag atacatagaa 300
aaacgtttga aggacaatgg tcatatgggt atcgttgttg ctganggtgc tggacagaaa 360
cttattgctg aaaccatgca gtcaattgng aaagatgctt cangcaacga gctgcttctt 420
gatgt 425

<210> 41863
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B9

<400> 41863

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ctcatgtgca cagtcacttt ttctcataa tacatccagg tggggttcct cccccagttc 120
actctataaa aaaactatca cacctacggg cacaagggtt cgtataaata cagttagggt 180
gggacgggag cgagtaattc tcagactcct catgtgcaca gtcacttttt cctcataata 240
catccaggtg gggttcctcc cccagttcac tctataaaaa aactatcaca cctacgggtca 300

caaggcttct accccgctga tatatatata caaatggatt gcataaaaga aattatcgag 360

ggcgagaaca ctctgccgta tcagtcttga taactctggt gttgtaagaa ccac 414

<210> 41864

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-C1

<400> 41864

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agccaacaag gaccacagcg tctatgagct gcggtacttc aacattgctg agaacgaagg 120

cgaggaagaa gattagactg cattgcactt atatctcagt tttgaactca ttgaatttgg 180

tacctgtacc cgtagttttg caaatgcccc catgttatgc tctggtgaat tttggatggt 240

ttatttattt gaaaagtcta tgcatttggc tgctcctata tgaac 285

<210> 41865

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-C10

<400> 41865

gtttgagctg gacgtgctgt tggaatctgt tagtgttaca attaagcgtg ttgaggagtt 60

ggtggtaagt atggaaggca actcactgaa acctgatagc tctatccacc tcgatgaaca 120

tttgactagt ttgaatatga ggtgcattga gtggctatat ggtgaccatg gacttgatgt 180

tgtggatggt ctttcaaaaa aatgctggtg tgacat 216

<210> 41866

<211> 466

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-015-Q1-K1-C12

<400> 41866

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 cagaaaagta tccatctcaa actttcttca cennntcgca atgggagaaa gggatggann 120
 tgactttcat tannacgctg nnttcaagaa tgggtgannt gaggagaaac acatgtccca 180
 tggtaatacc aatacgtatc atgtgttgca tcctctagtg tctgcatact ccccatatnc 240
 tgtatgatgc tcgttgaaga aagcaccnng ttgcagaaga atgccagaat accaaagtta 300
 ttagtcattc tgtactttac tgcaatggtt accaagaact ctgttgctga gggactctc 360
 ccagctttaa aactgaatat taagagagat tcattccaga aaagacacna atctgcaaag 420
 aaactaaggt ctcagatgaa attcaggaaa gtcaaaaggg tctcat 466

<210> 41867
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-C3

<400> 41867

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 tcgaggcctg gaaaaaggtc gcccccaaca tcgagcccc agcgacgccc ctctccctca 180
 tgcagccgcy ccgcgccacg ccagctacca tccctaccaa gctcaccgtc aattcgtcc 240
 tcccctacaa gtccgagatc gccaacaagg aggttgacat ggtaattgta ccagctacaa 300
 ctggtcagat ggggtgttttg ccaggccatg ttgccacaat tgcagagctc aagcctggtg 360
 ttctctcagt acatgaagga aacgatgtga gcaagtactt tgtgagcagt gggtttgctt 420
 tcgtccatgc 430

<210> 41868
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-C5

<400> 41868

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ctttttatgt ggcagcaata gtattattca atctcttatg agctgcagct acgtacaaaa 120
 agaaacaaat agaagaagaa gggaaaaaac gcgacaagaa cctggggccc gaggcctccc 180
 gccagggaa acccgccaac gactacacc gcggtgcaa cccgatcacc ggctgtcgcg 240
 gctgatcata tctctctggt cgatgtgcgc gcaatgtcaa tgtcgcacgc gcgtgcaggt 300
 accaggcctc agcgtgtggt gccgcgtgtg tgtatatatt acacacatgc attatacatt 360
 ggtcgtcgat cgttactgta tgcattggaa ctgatgcttc ttgcctcgca tatctgacgt 420
 gtatactgat gtatgt 436

<210> 41869
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-C7

<400> 41869

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 atgtcgcgcg ccacagctgc ggtcctcttc tacatcctcg ccgtcgctgc cctcagecg 120
 gccgaggcac cggcagagtc accgaaggca ggcagtcctg ccaaggcacc ggccgagtca 180
 ccgaaggcag gcagtcctgc agtcctgcc aaggcaccgc agtctgctgc caccgagaact 240
 gcccccgta aggcacctca agccggctac acccccgccg atgacgctgc cccatcgctg 300
 tcgtcgctta ggaagtctgg tccagctgcc gcgccacca ccgtcgcttc tacaccgtct 360
 tcttcacgg acgaggagtt gagcccttcg ccgtcgccat ccacc 405

<210> 41870
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-D1

<400> 41870

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 cgcaagctat tagtgttctc ggtggattta ggctcaagg gaagacggtt gacagtgcta 120
 taaaggttgt ggagacagca cttgccttgc aggaggctgg atgcttctcg gttgtgttgg 180

agtgtgtgcc tgctccagtg gcagcagctg caacatcagc attgaaaatc ccaaccattg 240
gcattggggc tggaccattc tgtagtggcc aggtcttggg gtaccatgac ttgttaggga 300
tgctgcaaca cccacatcat gccaaagtca caccaaagtt ctgtaaaciaa tttggtaacg 360
tgggcgatgt tatcaacaag ggcgtatcag agtacaagca agaagtgga 409

<210> 41871
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B3

<400> 41871

gatgaaagac catgcaatgg ttttcaagaa gcttttagctc gatacagaga gattgtacct 60
catcttcgcc tttcgggtcc tacgtcattc gcccgaataa ttgacatggc cacaaccatt 120
gtggagcaaa gtgggtggcca ataccatgtt ttagtaatta ttgctgacgg gcaggtcaca 180
agaagtgtag atactgaatt tggtcagtta agcaccagg agcaaagac agttgatgct 240
attgtacaag caagccaatt cccattgtct ataattcttg ttggagttgg agatgggtcca 300
tgggatatga tgaaggaatt tgatgacaat ataccagcta ggtcttttga caatttccag 360
tttgtcaact tctactgcgat catgtcaaaa aagataagtc aaagcaaaaa ggagacagag 420
ttcgcccttt cagcact 437

<210> 41872
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-H6

<400> 41872

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cagcagccgg cgtgtgacgc tggtagtctc cggctccgc ctgctgcttc tgggttgggtg 120
tgcgagggcg gtagtggagt tggtagctgc tgatgataat atcgccggcg ccgctgctgg 180
cacggcggtg gacgatggcg agccgcctca gcagtgcgcg accccgggtga gcgtggagga 240
ggcgtgccgc ggcgcgtccg agacgcacgc cggcgtggcc tacgaccact gcatggcgctc 300

gctgggcgcc gacccgcgca gcatggaggc cggcaacaag aacatgcacg ggctggcggt 360
gctggccacc aggatggcca tcgaccacgc cgtcagcacc gagtccaaga tcgacgacct 420
cgcgagcctt gaa 433

<210> 41873
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-014-Q1-K1-H8

<400> 41873

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cgagacccgc cgtcaagtct cgtccgagta ccttcataca ccacgcgacg gggctgttca 120
cagtatcgac tatcatgcgc gcgatcgtgc gcgctccttc caagtctcgc gtcccaccaa 180
gtatggctcc ccatacgtca ttccgcgtcc gatgttctcg ctaccttcat cgatgggtgg 240
ctatcgatga actccgcgat gaagagcatc agacagccat cgcactatcg acgagctacg 300
tccttcttca cacgtcaggc atgggcccgc ggcataatgg acgtccagct gtcccgaag 360
cacgtacata ccttctggac acggttagcc gtctcacgat ccaggtgtac cctangtcgt 420
ggacggcagt gatgatgacg ttcgacaacg tcggcatgtt gag 463

<210> 41874
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-H9

<400> 41874

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gtccaagtac catgtatctc aagtacaggg gaacgagcat ttattatgtt ttctccaggg 120
ttgaaagtgc agttgcgtgc agagaatgaa tgcctaggca tgcagccact cgctctcggt 180
cggtcgctcc agtcctgctg gcttcgctta tcttccccctt ttatttctcg tgatgacatg 240
gaatagtcta tctcgtcta gctaatacagg tcgcggaagg aagcgcccag ctctcgggca 300
cgggcccgac gtcatatatg ac 322

<210> 41875
 <211> 283
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-A10

<400> 41875

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 gttcgctggt cggcgcggcg gaagccgcgg ctgctcaacg ggtaaaggag aaagaggcgg 120
 aggcgtctga ggccgcgcgg gggcccgcg acctggagga ccgggtggcg cggctgaggg 180
 cggaggcggc ggcgtggcat gccaaaggac cagcggatca gtccacagcc gggcgctcc 240
 acgcgcagct gcagaaagcg gcggcgggcg atgcgagggg caa 283

<210> 41876
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-A11

<400> 41876

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 cgctcatcta ccagtccgac atgcgcgcgc aggatcccgt cgggtggctgc taccgcctcg 120
 tcctcagtct ggagcgccag ctcgagatcg atactgccga gctcaccgcc gtgctccacc 180
 acttggcggt ctgccgccag gctaccacga caaccaccgt gatggcaccg caacagcaag 240
 gcggtggcat ggctgacctc gacgtcacgt cctccaacca gccgcttctc cccaacgagc 300
 agcaagaagt cgttgacgca ctctacgtga atcacgaagc tcacaccgcc atccttcaaa 360
 ccgacgaggt cgtccaccgc cacggtggag gccacagccc caccgatgat catcacggtg 420
 a 421

<210> 41877
 <211> 81
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-A12

<400> 41877

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tccgaacctg aaaatcaggg g 81

<210> 41878

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-A2

<400> 41878

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actggtgggt tctcacaagc aaacttctta gctgaagggt gatttgggtc tgttcacgca 120

ggtgtccttc ctgatggcca ggctattgct gttaagcaac acaagcttgc tagttcccag 180

ggtgatgttg agttctgctc agaggtggaa gttcttagtt gtgcacaaca tcgaaatgtt 240

gtaatgctga taggtttttg cgttgaggac aaaaggcgtt tattggttta cgagtacatc 300

tgcaatagat ctttggaatc acatctctat ggtcataatc gagaaacatt ggagtggact 360

gcacgac 367

<210> 41879

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-015-Q1-K1-A3

<400> 41879

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aatcgaacct ttgatgatgg aagctcttga gaagattgag aaggatatta agaaaccact 120

tttaaggagt gacaagaaga acatggccac ccttatggca gagtttgaca agattaacac 180

aaagcttggc attcggaagg aggatcttcc taagatcgag aaagaacttg aattggagat 240

tgccaaaagt gagctgactg aacttaagaa ggaatgtgtt gaggcaatgg agactcaact 300

caagagggag gagttccaag atgaggagat gcctgatgtc aggaaactgg acattcgaaa 360

ctttctgtan gcctgatcga cgataacctt tgaggcattg caaatcacc

409

<210> 41880
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-A5

<400> 41880

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tctgttagtg gattaacat gaagaatact atagacatcg aatgaatggt tttattttcc 120
atgtcattca aacttatttc agtgctggag tgttttttcc agccaaagta attatttatc 180
cttgaatgta gtgttatctg ctgtcagtgg cttgaaagtt gggctaccaa atacctcaca 240
aggtgatttc tttgggggta aaatttctcg tatcttatag catggagttt atttttaata 300
aattatggct tactttgtgt tttcattaaa cgttctttgc agatgctggt gtgatgattt 360
caattgcact tctttagta ttgttttagtg tacagaggta tgccactagc aaagtggggg 420
ttgcaattgg cccttct 437

<210> 41881
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-015-Q1-K1-A7

<400> 41881

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caacacctat cttctcgtcg gatgctgcaa cgacgagcta acctaccgt acaagggcaa 120
gaccgtcatg acccaggaag agcgatacga atccctgcgg cactgcaagt gggttgatga 180
ggtcattcct gatgcaccgt gggttctcac acaggagttt attgataagc atcagattga 240
ctatgttgct catgatgcgc tgccttatgc tgatactagc ggaacagcaa atgatgtcta 300
tgaatttggt aaaaagattg gaaaattcaa ggaaacaaaa aggacagacg gggtttctac 360
ttcagatctc ataatgagga tcttgaagga ctataaccag tatgtcatga ggaatttagc 420
acggngctac tcg 433

<210> 41882
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-A9

<400> 41882

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atcttgcggg cctgcattgg ccttgcccct gagaacaaca tgatgcttga gcacaagtga 180
agagtttcac gtcccttaat taactaccgc aagataggat gaatggaaaa ggagggatca 240
agcgaagggtg tgggaataat cagtgactcc tctgagccca acgaagaaat gtcaggaggc 300
tacaggaagg agaagtgtaa ggagagaaga accagcatgg atatatactc ttttcgaaag 360
ctatctatct attctttttt ggaaaattga ctctgtttt 398

<210> 41883
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B10

<400> 41883

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cctcgagaaa cctgggagat cgaggctgta atggctggcg caccatggcc tctgccgget 120
tcaagttcta tgggtgtagc agcagagaat agcaatgaca tatctaaagt gtcgtaattt 180
tctctatgct caatccatat cccgagttga aacaaattcg atctggattc ttatattcaa 240
taaatagtga ggctgaggcg caaaacattg ttggattgat gactggaaaa catttcatac 300
gctcacttat tttgtaagct ctctgttatg tgtttg 336

<210> 41884
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B11

<400> 41884

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ggacgacagc taccttgacg agcctgcaat cgacactgtc aagaggatga agctctatgc 120
agaatcactc gcacgctttc aaggagggtc cccttacatc taccctctat acgggtctggg 180
agagctccct caggcctttg cccgcctgag cgctgtttac ggtggcacgt acatgctgaa 240
caagccagaa tgcaagggtcg agtttgatga gagtggaaaa gcgtatggag tcacttctga 300
aggggagacc gccaagtgca agaagatcgt ctgccatcct tcgtatttgc cagacaaggt 360
gaagaaggtt ggaagggtgg cccgcgcgat atgca 395

<210> 41885

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-B12

<400> 41885

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atgtgacatc acattttcaa aaacacaaac gtgacacca tgctattgct ggccacagta 120
aggggtgggaa tgtggttatc ctctatgcat ccataatatca tgatatatct aaagttgtta 180
acctgtcttg aaggtttaag ctggaacgtg gtattgaaga tcgttttggg aatgattaca 240
tgghaaaagat tgatcagcat ggtttcattg atgtggaaga caaaacagga cgtatcatct 300
accgtgtgac caaacaaggt ctgatggacc gtcttaagac agatatgcac tctgcatgct 360
tgtctattga cccaaactgc aagggtgtga ctgtacatgg tgctaata 409

<210> 41886

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-G10

<400> 41886

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tttcggaaga aaccgcatca cctacacaga cacgtgtacc ggtcaagatc tgaagaaata 180
ccacaacatg gatgccatca atgacctgtt agtgtcaggg gtagcgtcaa ggaaagccaa 240
ccaccaatt ggacaa 256

<210> 41887
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-G11

<400> 41887

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tgctcctcct ggccgcccgc gcggtggcgc cgtttgccgg ggctgcgcgt gtggatgtcg 120
tggaaggcag gtccatggcg tccgccgacg cgctgatgc ggccggctgac gcgcccgcgc 180
ccggtcccga ctccgcctta ttcccgact cgccgggtgga agcgccctcc aacaacagct 240
cattcgacta ggccgcccgc acgcaattct tgtcatgac tatctagcaa ataaaaagat 300
catatgtctc gtttgattct ctggaataac taatagtata tatgctgcgc ccggatgata 360
tataaatatg tgcataaat gcgtgcggca aacgcattgga atg 403

<210> 41888
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-G12

<400> 41888

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gaagggtccg cccggcccca acatcaccac caactacaac ggcaagtggc tcaccgccag 180
ggccacctgg tacggtcagc ccaacggtgc cggcgctcct gacaacggcg gtgcgtgcgg 240
gatcaagaac gtgaacctgc caccctacag cggcatgacg gcgtgcggca acgtcccat 300
cttcaaggac ggcaagggtg gtggctcatg ctacgaggtg agatgcaagg aaaaacctga 360
gtgctcgggc aatcctgtca cgggtgtcat cacagacatg aactacgag 409

<210> 41889
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-G2

<400> 41889

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catagcgttc atgagtgcga gcgaagtgtt atcactcaac gtgccaggct tagaagatca 180
gtagacgcag gactgaaaaa tacgcagat 209

<210> 41890
<211> 345
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-014-Q1-K1-G4

<400> 41890

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gaaagacctt caattttttg gtggtgagag cattaaagac caagcgttcc tgggtattcga 180
ctattacaag gattgtgcca ctaattcgac attcctgtat ttctctcatg gtcttaatga 240
gatcaagtgc tagattagtt acccatgttg ggtactatat atgttctatt gttattgcca 300
caactatagc tgccctgcct gaactgaact cangattttt ttaag 345

<210> 41891
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-G5

<400> 41891

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cactggcagc ctccaggaca acttctttgc cagttttgct ctgggttggc tgatcaccaa 120
 cgggtgctggt cttgcatctt accccattga tactgtccgc agaaggatga tgatgacttc 180
 tgggtgaggct gtcaagtaca agagctcctt ggacgcattc cagcagatcc ttaagaagga 240
 aggccccaag tccctgttca aggggtgctgg tgctaacatt cttcgtgccca ttgctggcgc 300
 tgggtgtgctt tctggctacg accagctcca gatcctcttc ttcggaagaa agtactgctc 360
 cggcgggtgct taaatggaga aaaatgatga cgaaca 396

<210> 41892
 <211> 405
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-014-Q1-K1-G8

<400> 41892

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 gaacctttct tcgacgcaaa aagaacccca cccgcgtacc gtgagccgcg atggcgacgg 120
 tggcgatgga catctcgaag cccacgccgg cagcgtccgg tgacgaggca gcggcggcgg 180
 cgaaggggag agcggcgggg tggcgagggg ctgcggcagt ctacctgcac acatccatga 240
 cctgcagctc cagatccggc agaagacca taacctcaac cgctcagagg cccaggcatc 300
 gacctcaact ccgagttaga atgctcagga agagttgcag ttgcttaaga gcctggctca 360
 tatgtgtgag gtggtgaagt catngaaaat caaagttctg gtgag 405

<210> 41893
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-G9

<400> 41893

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 gggccgtggc aaggctatcg gcgctggcgc cgcgaagaag gcaacgtcta ggagctccaa 120
 ggccggactc cagttccccg tcggcaggat tgccaggttc ctcaaggcgg gcaagtacgc 180
 ggagcgcgtc ggcgcggcgc ccccggtgta cctcgccggc gtcctcgagt acctcgcggc 240

tgaagttctc gaacttgccg ggaacgccgc gagggacaac aagaagaccc gcattgtgcc 300
 gcgccacatt cagcttgctg tgcgcaacga cgaggagctg accaaactgt tgggtggtgc 360
 caccatctcg agc 373

<210> 41894
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-H10

<400> 41894

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 ccgcttcccg cctccaccgg cagcctgggc gacggtggac ggctccctcg ggcttccgct 180
 ggaggacgcg gagggccacg cccgcgcgtt cttcatgtgg ggtttcgcgt gcctccccctt 240
 cctctggggc atcaactgct gctacttctg gcccgctctc cgtcgtcggg tcgctctctc 300
 gccgcgcgcc ttgcggccca tccgtccctg tgagaccgct accccttctc cccgcttctc 360
 cgtctctctt ctctcttctc gcgcctgaga tctgatcttt cgtgatgcta gtatgtga 418

<210> 41895
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-H11

<400> 41895

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 gacgacgggc agatgtactt cggcgtccc gccgccccct gcgtggccaa gctcgtgaag 180
 gtcgtcgcag cgcggccgta ctctgtgtcc atcatggaga tcagcgagcc cattttgccg 240
 gccgcgttgc cctccccctg cgcggcgccc ggccgcgcgc gcaaggggtg taagcgcaag 300
 atcaagccat cagcggcaac ccatgaggat ttcaacatga tcccgcgcaa g 351

<210> 41896
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-H12

<400> 41896

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cggattcgac ctccgcaccc cttcccacag cacccaagca gaccacagca acggctgcaa 120
cccctgctgg aacgccgtgg tacacttccc catcccggct gccgctgaca cccgcggcct 180
cgcactccac gtgaggctcc gcgcccagcg tctatacctg ggcgatcgcg acatcgggca 240
ggtgtttgtg cccatcgacg acctcctggc cggcgccgac aaggggtggcg atccgaggcc 300
cgtgagcta 309

<210> 41897
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-H3

<400> 41897

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gtgaaggcca agatccagga caaggagggc attccccag accagcagcg tctgatcttt 120
gctggcaagc agctggagga tggctgcacc ctgcggact acaacatcca gaaggagagt 180
acccttcacc ttgttctccg cctcaggggt ggtatgcaca tctttgtgaa gaccctgact 240
ggaaaaacca taacctgga ggttgagagc tcggacacca tcgacaatgt gaaggcgaag 300
atccaggaca aggagggcat ccccccggac cagcagcgtc tgatcttcgc cggcaaacag 360
ctggaggatg gccgcacctt agcagactac aacatccaaa aggagagcac cct 413

<210> 41898
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-H4

<400> 41898

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 aaagactcca ccgattacct atgggacaca acaagtttta gagtggattg aaagtactcc 120
 tcaaaaggga tccatgctgt ccttaatatc gactccaatg gccatggtgt tcatgctttc 180
 ttgaataatg tgctcataag tagtgcatat ggtaatggct cacaatcaag attcagcgtc 240
 aaattgcca tcaacctgat gactggaaag aatgaacttg cccttctaag tatgactgtt 300
 ggtttacaaa atgcacgatt cgcttatgaa tggataggag caagctttac aaatgtgaac 360
 a 361

<210> 41899
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E4

<400> 41899

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 ccagtgcttg attttttttt ctgtgttccc tgagatcata tttggtggag tgggaattgta 120
 tcagccggtc gagagcttag ttcccgaatc ttttttaatc ttaacggaaa atttgtccgt 180
 catccttctg atgagaggaa ctcatataac aggcgaaata ggtctttttt tgcgctggga 240
 aaagtttacg ctgatgcat aataatttgt aggacggcaa cgctctagag cgcaggtttt 300
 gttcaccttc tgtaccgagg aatgcttaaa gttacatttc acattatggt cttt 354

<210> 41900
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E5

<400> 41900

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 ggtggcagag aaagtgtggt ctgaggtgtt tttctactta gccgagaaca atgttctgtt 120
 tgagggtatc ctgctgaagc ctatcatggt cacccttga gctgatcaca aggagaaggc 180
 ttctacagaa gccattgcaa agtacacgct aacaatgctc agaaggagag ttccttccga 240

tgttcctgga atcatattcc tttctggtgg acatgccgat gtggacgctt ctctgaacct 300
gtatgctatg aaccagtctc tgaacc 326

<210> 41901
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E8

<400> 41901

ctgcttcttc tagctcatgg cctgtccatg ccaggtcgcg ctggctgcgt ttcatttcat 60
ggaagaaagc aaggatggat cacaggttgt cgttctgcta attaacttac atacgtttgc 120
cttcaagtac tgtgttgtgg cattgttaca catcacagta cagtttggtc aaattttttt 180
tccacagagg aagtagggat tgatttaatc attgatttaa tcccacacgc gtgtatctac 240
gtatacagtt tgtataacat gaaccacctc tgtttgcat tggtctaaaa ataaatataa 300
tacttatata ttgaattggt ttgc 324

<210> 41902
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-F10

<400> 41902

cgctcagatc tctccgcccg ggtccatttt cttaccccaa accttctccc gcctctctgg 60
tcgacgccgc ccgacgagag ggatggcggc cttgcgggct ccggccgcaa cgctcctcgt 120
cctcctcgcc ctacggcgcg ccggcggcgt ggcggccgac ggctccgac accggtacaa 180
gattcgcgag cccgtcccgc tctacgcaa caaggtcggc ccatttcaca atcccagtga 240
aacatatcga tatttcgacc tgcctttctg ctctcctgac aaagtgaagg agaagagcga 300
ggcccttggg gaggttctca atggggatcg gttagttgat gcgccttaca aagctgattt 360
ccgtga 366

<210> 41903
<211> 318

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-014-Q1-K1-F11

 <400> 41903

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 tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc tgcttcgtcg gcggcctcgc 120
 ctggggccacg gacgaccaact ccctccacaa cgccttcagc acctacggcg aggtcctcga 180
 gtccaagatc atcctcgatc gggagacgca gaggtcccgc ggcttcgggt tcgtcacctt 240
 ctccacggag gaggcgatgc ggaacgccat cgaggcatg aacggcaagg agctggacgg 300
 ccgcaacatc accgtcaa 318

<210> 41904
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-014-Q1-K1-F2

 <400> 41904

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 gtcgcggcgc ccaccgtccg ccgggcgctc gtcacggcag aggtgcctgc ggaggccgcc 120
 gaggactcca cgtttgtgga gacgtggaag aaggtcgcc ccaacatcga gcccccaacg 180
 acgcccctct tctcatgca gccgcgccc cccacgccg ctaccatccc cactaagctc 240
 accgtcaact tcgtcctccc ctacaagtcc gagatcgcca acaaggaggt ggacatggta 300
 attgtaccag ctacaactgg tcagatgggc gttttgccag gccatgttgc cagcattgca 360
 gagtcaagc ctggtgttct ctcagtacat gaggggaacg atg 403

<210> 41905
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-014-Q1-K1-F4

 <400> 41905

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cgccgccatc cgagcgaaca agccaaccga ccccgctccc aaggcaatcc gccgccgacg 120
taccaccacc accgcaggag cgagatggag atgaagagga tctctctcgc cgtcctcgtc 180
gtcatcgccg cctcgccac cgagtgctg gccttcaccg aggcgcgct cgcgggcgcc 240
ccaactgcct ccgagtcgtc cgccgaggct cccgctggcg ctggcgctgg cgctgccgct 300
ggcgccgctc cctcggggcc cttcgccagc agcggcgcgc ccgtcctcgc cgtcgcgccc 360
gccgcgctcc tcttctccct tctcgctac tacctnact aagcgtgtgc gtgcgtacgt 420
acgcgc 426

<210> 41906
<211> 396
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-014-Q1-K1-F6
<400> 41906

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gtggaccgac gatggggagg tgctgcagct gctcgacagg ttccgggagg agctccgccg 120
ggtggagaag cggattacgg agaggaacag ggacccgcga ctcaagaacc ggaagggacc 180
cgccaagggtg ccgtacacgc tgctgttccc ggacgtcggc ggcaaggaga aggggatcac 240
cggcaaaggg ataccaaca gcgtctccat atgacaattg acaagctcgc tccttttttt 300
ttattgcttt gttgcagagg atctgattat ggatgtcggt ttaatttcgt tgtgagcatc 360
attgtgttaa tatgtctat tgcgatgatt ggtttg 396

<210> 41907
<211> 426
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-014-Q1-K1-F8
<400> 41907

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ccttgagata tcaaattgggg ttttcgaggt caaggcaacc aatggtgata ctttccttgg 120
 tgggtgaggat tttgatggtg cactgcttga atatctggtt agcgagttca agaagtcaga 180
 caacattgat ctgagcaagg acaagttagc actgcaaagg ctgaggaag ctgctgagaa 240
 ggccaagggtt gagctttcgt ccactatgca gactgaaatc aacctcccat ttatcactgc 300
 tgatgcatct ggtgcaaagc acttcaacat taccttgacc agatctaagt ttgagtctct 360
 tgtgagcaat ctcatgaga ggactcgcat ccctngtgtg aactgcctca aggatgctgg 420
 catctc 426

<210> 41908
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-F9

<400> 41908

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 aggcaaggca cgtggttccc ccagagaaat ttgtggaggc actgaaactg atggagcacc 120
 gctatggggc aagagatttc gtgacgagtc aagatacaag tctgctatcc gcaggcacat 180
 actatctcac gcacgttgac tccaagtaca gaaggttcta cgacgtgaaa ggtgacggtg 240
 tcgccactgc aatgtccaac ggccactgat ctttcttctg cccgaagctg caacaagtca 300
 aataacagag gcaagtgtcc taaacatcct tagatgatta tatatctatt aagaggggaa 360
 gctcgagtta tagattaatc tatgccagc tg 392

<210> 41909
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C7

<400> 41909

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 tcctcttctg ccagtcctcc cccgctagcg cccccgcccg ggagttcgtg aagaagaact 180

atggtgacat caaggccgc aaccctccc tccccttct tgtccgcgag tgctccggtg 240
 tccagcccca gctctgggcg cgctacgata tgggtgtgga gagatgcgtg aacttggatg 300
 gtctgacgga agcacagatt gataagaagc tggaggaact tgcaatggcc ggggagtctc 360
 ttaaaaccaa atagttttgg aactcgtatc at 392

<210> 41910
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C8

<400> 41910

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 gatcctcatc gccgcgctcc tcgtagtcgc cgtctcggcc accgcagtgc tggcctccac 180
 cgaggccgcc gccgtcggcg cccagccgc ctccgagtcg tcggcggtccg ccgaagcccc 240
 cgctggcgcc gccggcgccg gcgccggcac cggcaccgtc gcggtgccct ccgccagctg 300
 cgccgtgccc gccctcgccg ccgatcccg cgcgctctc ttctacctgc ttgcctacta 360
 cctgcactaa tc 372

<210> 41911
 <211> 112
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C9

<400> 41911

gatggattat agatcctgac atatttatct tttattttgc aagacttccg ctgtgtaata 60
 aggactctga ttatattgtg tcatttatct ctattcacct tgtgatttta tt 112

<210> 41912
 <211> 252
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-D10

<400> 41912

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aagtatgtca aaatattagc tgcaaagcta cattatgcta gaacccagtt accaaattct 120
aagtcaaaaa ttccattggt ccttaaaaaa aattggaggc tcaaaagtag aacaagctcc 180
ggggttaatt tgggtccgtgg gttaaaagca ttgacaaca ttattaatcc ttgacaattt 240
taaaacctta ag 252

<210> 41913

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-D12

<400> 41913

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gcccttttcc gacattcaca ggggggacag gaaatcagcg gccatggcct cgattccggc 120
gacgacctc gccgtcatct tatccgtcct cttctgtgcc gcggttgga cgcgcgtcga 180
caacgacctc cccgactacg tcattccagg cgcgtctac tgcgacacct gccgcgccg 240
gttcgtgacc aatgtcaccg agtacatcgc gggcgccaag gtgaggctgg agtgcaagca 300
cttcggcacc ggcaagctcg agcgtccat cgacggtgtg accgacgcga acggcacgta 360
cacgatcgag c 371

<210> 41914

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-014-Q1-K1-D6

<400> 41914

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accatagttt aactctcaca aatggtgcca gttgcggcta cctagagtgc aggaatggcc 120
aacataaact ctgaaatagc gtcattgactc atgaggggaa acaattgagg tagtgaaaac 180
aggtaactgc tggaagaaac ggaaacagaa accaacagct acaccgaata tttctccagt 240

accacgatac atctaatacgca tgcccaaact ctgctatctt caatgttcaa cccggcttga 300
 accacaagca gataactgtcg aatttccgta ctgtacttgt atcattcttc acagttcatg 360
 tctttatgcg caccacatac gaacatgnet gaaggtttga catgtcagca gagacagaac 420
 acgaaatttc 430

<210> 41915
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-D7

<400> 41915

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 cggcgatgcg cgcaatgtag ggctcgatgt cggcgtgctt ggcgagcggc acgcaggcgc 180
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 cgttgctcgc caggatccgg cgcagcgtgt cgcgctgcac ggcggcgggc tcccgcgtga 300
 gggactcgaa ctggcgatc accgtctcgc cgcagaacgc ggcggcctgc gccttcttct 360
 ccggcatggc g 371

<210> 41916
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-D9

<400> 41916

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 acggttggtg atcatgcaag ttttatgggt tgggaaggacg aagcatttga aatctggact 180
 cgggggtggg gttgcatgtt ccctgagggt gattcatcga gggagctact agagaaggtt 240
 cagaagacct actacctgt cagcctcgtt gacaacgact acgtccaggg ggacctgttt 300
 gctgccttca agatctgatt atgctctcat ggtctgtatt gttgtatggt tggaccaaac 360

aatattcttg catccccgac tacaggtctg atcgccatga aagcttctgt tc 412

<210> 41917
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E10

<400> 41917

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ccttggtcat ccttcacctg ctgatggcgg cagcggcgg gccatccaac gccactcttc 180
tcgcgcgcct tcgggacggc acggccaagt tcgagctgct ggatgactct gcgtttgcgc 240
ttgcgcacgc gccccggcc tggccccgac ttcactgctt tgccaggatt gccccctcgt 300
tgaggggtgg gtggtcggca gcgttgaaca aggtggagca ttacgggggtt cagaggggta 360
ccggcgatgg ccggtgcatg tttcgagcgc tggctaaagg aatggcaaaa 410

<210> 41918
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E11

<400> 41918

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gggccccgggt gcaacggcgt cttggtggac agcatcacct gcggccccgg gcagggcatc 180
agcgtcggct gcctaggccg ctacaaggac gagaaggacg tgagcgacat cacggtgcgg 240
aactgcgtgc tcaagaacac caccaacggc gtgcgcatca agtcgtacgt ggacgccgag 300
tccgtgctga cgggcctcca tctcaccttc gagaaca 337

<210> 41919
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E12

<400> 41919

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tcgtccgagc gaacaatcca accgtccccg ttcccaaggc aatccgacgg cgacgtacca 120
ccaccaccgc aggagcgaga tggagatgaa gaggatcctc ttcgctgctc tcgtcgtcat 180
cgccgtctcg tgcaccgaag tgctggacta caccgaggcc gtcacgagg tcgccccaac 240

<210> 41920

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C6

<400> 41920

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agcagaagcc taaggaagcc aaaaaggagg cccgaagcc taaggaagct gagaaaccag 120
cagaggaaga ggaggctcca aagcctaagc caaagaatcc ccttgatttg ctctctccga 180
gcaagttgat tcttgacgat tggaagaggc tgtattctaa cagaaaacc aacttcctg 240
aggttgctat taaaggtttc tgggacatgt atgaccaga gggctactcc ctgtggttct 300
gtgactacaa gtacaatgac gagaacacag tgtcgtttgt gactatgaac aaggttggtg 360
gcttctgca gcggatggat ctgtgccga aatacgctt tggcaagatg c 411

<210> 41921

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-B12

<400> 41921

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tgggctagca ccacaaatgg aaacaagaaa ctggactcag catatcgca agctaaggag 120
aaagaagagc actgtcccat tttctgttta ttttcggtga atgccagtgc acaattctgt 180
ggtgttgctg agatgactgg accagtggac tttgagaaaa gtgtggatta ctggcagcaa 240

gataagtgga ctggtcaatt ccctgtgaag tggcacatag tgaaggatgt tcccaataat 300
 cttttccgac atataattct tgaaaacaac gacaataaac ctgtaacata cagcatagat 360
 acacaggagg tgaaactaga gcaaggaatg 390

<210> 41922
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-B3

<400> 41922

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 cggcaataat ggctcgcgtt ccggctccgg cgacgacgac cgccgtcgtc atcctatgcc 120
 tatgcgtcgt cctctcctgt gccgcggctg acgaccgaa cctccccgac tacgtcatcc 180
 agggccgcgt gtactgcgac acctgccgcg cgggggttcgt gaccaacgtc accgagtaca 240
 tcgcgggcgc caaggtgagg ctggagtga agcacttcgg caccggcaag ctcgagcgcg 300
 ccatcgacgg ggtcaccgac gcgaccgga cctacacgat cgagctcaag gacagccacg 360
 aggaggaca 369

<210> 41923
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-B4

<400> 41923

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 ctctgtcccc atcgccgtcg ccgtcgcgcc tctgctcctg ctctcctcg tctccactgc 120
 gtccgctgca cggaccgtgg gcgacaccgt gcaggacgcg tgcagcaaga cacaattccc 180
 caagatctgc gtggacagcc tcgccgcaaa gccagagagc cagaaggcga ccccgcgccg 240
 gctggcggag ctgttcgtga acatcgcggc cgagaaggga tccgggatgg ccacgttcgt 300
 gcacgggaag tacaacaacg ccaaggacag caccgtgttc aagtgtacg acagctgctc 360
 ggacgacgtc ga 372

<210> 41924
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-014-Q1-K1-B9

<400> 41924

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ccatcactcc acacaccggt cggaaccgag gccaaccaac gacgccgccg ccaatgtcgt 120
cccctgcagc gccggtgcag ccgccgccgc cgcgcgcggt gcgcttcggc gtccctgggat 180
gcgctgacat cgcgcgtaag gtctcgcgcg caatgctgat gtcctcctccg ggccgcccca 240
ccatcgccgc cgtaggcagt cgctccgatg acaaggcccc cgcttccatc tccgaaatcg 300
gcttccccgc ggccgcgcgc cacgggtcct acgagtctct cctagaggac ccgtacgtgg 360
aggccgtgta cctnccgctc cccaccagtc tccatgtgcc 400

<210> 41925
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-014-Q1-K1-C1

<400> 41925

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ttctcatcaa cacaggcttt gtcctgcccc tccattccga ggactgctgg gccgacaccc 120
gcgtcatctg caccaagacg cacaactgcc gggacgacac ttgcgcgggg cgcggcacgc 180
cggacggccg ctgccactgg gagttcccca acctggtgcc cttctgccag tgcttgcgcc 240
ccaactgcc ctagtccggg cgctcggat tggctcactt cgccggcgat gatggatggt 300
gcccactgc gactgcccag tctgtccat tcgttgttgt ttaaggcata atatataaac 360
tgccaaattc acatgtattt tgggatattg gntatcatat tatgaaat 408

<210> 41926
<211> 423

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C10

<400> 41926

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tgctgaacca gttcatggaa cagttcatag ctccaatttc taaagttctt tatectgagg 120
ttggtggagg aacattggac tcccatcacg cttttattgt tgaatatggg aaagacaggg 180
atgttgaact aggttttcat gttgatgatt cagaagttac attaaatgtt tgccttggaa 240
aacaattctc tgggtggtgaa ttatactttc gaggtattcg gtgtgagaat catgtgaatt 300
cagagacaca acatgagggtg acttctcatt ttacttcaac aactttctta tctacccatg 360
catggaaatg tatgactaca cacatatccc tggttgggct gtactccacc atggtcgaca 420
cag 423

<210> 41927
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C11

<400> 41927

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ctacttccac ttgcactcgc cggattgatg aagctcctgc atgcattgca tgcggagtct 120
tcaaggggat ttcagctggc actcatgcat tcaagtaaag gctccaattc gagataccgg 180
tgcgtttcaa taagcagggt caacagtatc tttcggttaa aaaaacagct ctgcttttcg 240
ggcggctgct atgtcgact gcacaatgtg gcgtatcgca acgatggcaa actaatgcct 300

<210> 41928
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C12

<400> 41928

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atccgcatcc atggcggtcaa gtgcgggccc tgccacggct tcagcggtcg gaagcctggg 120
 cccctccaag gccaaaaagg acttggaaaa cttccagtta acgggttgaa caaccgccgg 180
 aacaacgaac ggctgcgca tcaagtcgta cgaggactcc aagtcgtcgc tcaaggccag 240
 caagttcctg tacgagggca tcaccatgga caatg 275

<210> 41929
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C3

<400> 41929

cgtcaaagaa acaagtgcac acaaataaat acatcgctca ctagattgcc aagagcaatg 60
 gcctctaggt catccatcct gctcgtcatg gtgggtgctag ctacgtatt cgtggttggt 120
 tcgtgcacca ccccgctcac cttccaggtc ggcaagggct ccaagcccg ccacttggtc 180
 ctacccccca acgttgccac catctctgac gtggagatca aggagcacgg tggcgacgac 240
 ttctccttta cgctcaagga gggctccgact ggcaacttga cgcttgacac caagaccccg 300
 ctcaagtacc cctctgcat ccgcttcgct gtcaagtccg gtggctaccg catcgccgac 360
 gacgtcatcc ccgccaattt c 381

<210> 41930
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C5

<400> 41930

cccgatcgcc accgtcgacc ggactcccct caaaggcggc cacagcacag cgagcatggg 60
 agaccggcat cagcatgggc ctggcagcgg cgtggaggac ccggcgacgc tgctgcggcg 120
 ggtgcagacc cgcgcgccc actcgacgca ggtgggtggg ttctgacgc tgctcgtctc 180
 tggcgccgtg ctgctgctgc tgacgggggt gacgctgacg ggcgccgtgg tggcgctcgt 240
 cttcctgggc cccatcgcg tgctcaccag cccatctgg gtgcccgctc ccgtcgtgat 300
 ctccgccatc gtcgcgctcg cgctctccgc ctgcgccttc gccgtcgtcg cgctccccgt 360

ggccacctgg atgtaccgct acttcacggg ccgtcacccc gtgggcgcgc accgggtgga 420
ctacgcgcgc 429

<210> 41931
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-B11

<400> 41931

tgtatttcta cgatttgaaa tatagtttgt ttgggacggg agcgagtaat tctcagactc 60
ctgatgtgca cagtcacttt ttctcataa tacatccagg tggggttcct cccccagttc 120
actctataaa aaaactatca cacctacggg cacaagggtt cgtagaaata cagttaggtt 180
gggacgggag cgagtaattc tcagactcct catgtgcaca gtcacttttt cctcataata 240
catccagggtg gggttcctcc ccagttcac tctataaaaa aactatcaca cctacgggtca 300
caaggtttct accccgtcga tatatatata caaatggatt gcataaaaga aattatagag 360
ggcgagaaca ctctgccgta tcagtcttga taactctg 398

<210> 41932
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-H10

<400> 41932

gaaggttggtg agctgattag caaaacatgg gaaagtttcc atgatgtgaa gctcagtgac 60
cggagtctca tttggaactc tgacctgata gagacccttg agctggaaaa tcttttgata 120
aatgcatgca taaccatgta ttccgcagaa gctcgggaagg aaagcagagg agctcatgct 180
cgtgaggatt tcacgacaag agatgacgag aagtggatga agcactcact ggggtactgg 240
gaaaacgaga aagttcgatt ggcatcacagg ccagtgacaca tgaacacatt agacgatgaa 300
gtagagtcct tcccgcgaa agctcgtgtc tattgatcga ttcaagcctc acacccttcg 360
ggaattccgt gtaagggtgtt aataaagcag atgggcgttc cttgctgaga acatgatctg 420
aac 423

<210> 41933
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-H3

<400> 41933

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caatggccaa tgcagaggag atgagtcaac caaagctagt gaaaagatat ggaatgagct 120
caccaccacc cagagcatca agaagctggg aatcaagaac taaaaggcg taaagtttcc 180
aaaatggata aaaggtccca agctaggaga ctcttcccc agccttgtgt ttttggatct 240
tgaaaactgc atgtcatgta ctaaactgcc ttcacttggc ctctgagtc aactccagtc 300
cctgcaaact tcaaatgcag actcagtca 329

<210> 41934
<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-H8

<400> 41934

cggacgcgtg gggcaagaaa tggatcctac catgccagta ctagcaaac cacaatccga 60
aaggattcaa gccgggtcc cattggtaat aagccacctt tcaaggattc gaatgatgca 120
actctgagga agagcagggg tagcctcaa gcaccattcc ttaaagaatg gcagaccaa 180
attcttgcaa aggcag 196

<210> 41935
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-H9

<400> 41935

gaaagattgt ctggtttcct tgagaaagat tttcaacttt ttaccgatga tgaggatcatg 60
gagacaatga agcatgtcat caatctttcc aatgtgggtg ataggctctg caaacaatg 120

tatcagtgc ttgagaatga ttgttatat cctctacgca cacctcacia tatcgctcca 180
 taaaaatcta aaggccttga cagggcctca gagctcaata ttaagctgga tctgctgaa 240
 caaagttcac agtcaacaaa aca 263

<210> 41936
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-A11

<400> 41936

cggacgcgtg ggccggacgcg tgggaggacg cgtgggctgc cgtcttctgg gcaagttcga 60
 cctcaatggc attccgtcag ctccgagggg cacaccccag atcgaggtga ccttcgaggt 120
 ggacgccaac ggtatcctga acgtgaaggc ggaggacaag ggcacgggca agtcggagaa 180
 gatcacgac acgaacgaga aggggaggct gagccaggag gagatcgacc gcatggtgcg 240
 ggaggcggag gagttcgcgg agggaggaaa gaagggtgaag gagcggatcg acgcccga 300
 ccagctggag acgtacgtgt acaacatgaa gaacacgggtg ggcgacaagg acaagctcgc 360
 ggacaagct 369

<210> 41937
 <211> 282
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-A12

<400> 41937

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 agatccgcgg cgcttaaccg gtcacgccgt cgtaaaccct gggaattttc cccggaatca 120
 agccgccacg agtaccgcgg tggcatggtc agaattagtg ttgtgccgta gctgcgaggt 180
 tacgagtcac ttgaagacca agttggtacc tgggaatctc gagtctaagg tcaaggacag 240
 gtaccacagg atgaggcgca tgaaggatga tatgatgagt tc 282

<210> 41938
 <211> 357

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-A2

<400> 41938

atcgtgcgag catatccacg gcgatggagg cgagagcggc catgagctgg tactgcggct 60
cccttctggc cgtggccatc gcgctgttcc tgtccgtgtc cctcggcgtg cgcgccgtcg 120
gcgcccggcg cggcgctcac atcaaggtgt cgtgtgcagc gacgccggac ccggacgtgt 180
gcctactcgc gctccaggcg gacagcgact ccaagacccc gcgggacctg gcggaggcgg 240
cgctccgcgc ggcgacgacc gcggggcggc cggcggggcga ctacgcgcgg cacgagatgg 300
acgtggtgaa ggacaacgac atgtggcagt gcctgaacga gtgcgccggg gagatcg 357

<210> 41939
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-A3

<400> 41939

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ccataaactg gaactgcggg tgggttttcg cagaggacat ggggctggac ctatacgcgt 120
ccctcgacat gcgcgccggc agcgccggcg cctgcgtcga catcaaggag tcttgtgcaa 180
agacaccaga ccctgacgtg tgcctactag cgctacatgc ggacaacgac tccaagaccc 240
atcgggacct gtcagatgcg gcgctacgcg cagagacgac cgctgtcgaa gcggaggctcg 300
actacgctcg gaacgagatg gacgtggtga aggacaacga catgtga 347

<210> 41940
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-A6

<400> 41940

gggtttcaac gctgtttccg tatcatgcta atgggccgct atgaatatct atgcatgcat 60
gggtaccgtt tgcggtatct aattattatt acttcgtaga ccttactatt taaaattcaa 120

gcgttctcgt taaagtccctc tgtaatcttg cgatggaata tatttgatac attcctttta 180
aatcattcc attgaaatgc cattggctct agcctcaaac cgtgactacc attgtattga 240
ccgaatatat attgaatgcc tcttt 265

<210> 41941
<211> 376
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-014-Q1-K1-A9
<400> 41941

atggcctcga ttccggcgac gaccttcgtc cgatcatetta tccgtcctct tctgtgccgc 60
ggctggcacc gccgtcgaca acgacctccc cgactacgtc atccagggcc gcgtctactg 120
cgacacctgc cgcgccgggt tctgaccâa tgtcaccgag tacatcgcg gcgccaaggt 180
gaggctggag tgcaagcact tccggcaccg caagctcgag cgctccatcg acgggggtgac 240
cgacgcgaac ggcacgtaca cgatcgagct caaggacagc cagcaggagg acatctgcga 300
ggtggtcttg gtggagagcc cgcgcaagga ctgcgaccag gtgcatgcgg acagggaccg 360
cgccggcggt ctgctc 376

<210> 41942
<211> 394
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-013-Q1-K1-H1
<400> 41942

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cctcctaagg gtgttctact ctacggctct ccaggaactg ggaagaccct attggcaagg 120
gctatcgcaa gtaacatcga tgccaacttt ttgaagattg tttcaagtgc tattatcgac 180
aaatacattg gagaaagtgc tcgtttgatt agagaaatgt ttggctatgc acgtgaccac 240
caaccatgca tcatcttcat ggatgaaatt gatgctattg gtggtcgaag atttagtgag 300
ggaactagtg ctgatcgtga gattcagcgg acgttgatgg agctncttaa ccaattagat 360

ggatttgatg agctaagaaa ggtaaaaatg atca

394

<210> 41943

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-B10

<400> 41943

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gcttggtggt cgtccccctt ccaagagcca agattcggcc gtgcattaaa aggcatgtgc 120

cacctttgaa cccttcattt tcaacaacgg gttcgtcaaa atcattaacg gcgaaatcaa 180

caccgttgac ttcacccggg acattaccac cggagttaac ggcaacttca ccagcgggat 240

taccaccag 249

<210> 41944

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F2

<400> 41944

gcaaacctgc agtcatctcc tccatcacca ccaaactcaa caacagccag ctgcgcaaaa 60

taatgaagag ccgcagcatg gcatcatcgg ccgcgctctt ggtgctagcc ctgcgctag 120

tggcggccac cgccccacag gtagcggagg caaagaagaa gagagcggcg gagagcggcg 180

aggcggcgga ggcgaagaag atccaggacg acttctgctc gacgctgtgc gagggcaaga 240

aggggacgga cctggtcgtg tgcaaggagt cctgcgcgct ctcccagcag tccaacctgg 300

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<210> 41945

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F3

<400> 41945

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 aatatggtcc acgaagagct cgagagcgag gattttatat tcttcacaaa ccttgatggg 180
 ttgtgagtgg ctgcttaaac aagcatctgg ctaacagcct aacacatcaa aagggtgacc 240
 aggccagcgt tggtgaccct gcagtgatgt ttttttctg ggcggcaaata gagaatgatg 300
 cctgtaaaat gtgtaattta ggatagattt aaattttgag ctttgttgtc tagtaatact 360
 ataatactct atattactgc aagctagagg tctgtatgat cttgtaaaaa ttagtattac 420
 tttccttttg aaatctaatag cttc 444

<210> 41946
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-013-Q1-K1-F4
 <400> 41946

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 cttctccaag agcttggttag atgttgcaga caatttgtct cgggcatcat ctgttgtcaa 120
 ggcaagtttc tcaaagatag attcatctaa cgattctgat gaagctgtaa cactactgaa 180
 aaccctacta gaggggtgtt agatgactga gaagcaactt ggagaggtct tcaagaagtt 240
 tggagttgaa aagtttgatc ctttgaatga gaagtttgat ccaaataaggc actatgccat 300
 tttccaaatt cctgatcctt caaaaccatc aggaactgtt gctgctgttg tgaaggttgg 360
 ctacatgtta catgatcgtg ttcttcgccc cgctgaagtt ggtgtcac 408

<210> 41947
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-013-Q1-K1-F6
 <400> 41947

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 ttgggggtgaa cctgctgaac ttgcacatgg tgatattata actctagga cttcatctaa 120

actatctgtt caaattacac tgcaaaatca acgagttcct gctgggtgttg gtatggcatc 180
 cgatccaatg gtggcacgta gaagtggaaa gaaacttcca atggaagaca taagcttttg 240
 ccagtgtcct ctgcaggggtg ttgaacattt tgggctcttt ggaatttttg atggacatgg 300
 tggggatgga gctgccaaag ctgtcagcaa gattcttcca gaaaatctgg gatacatgtt 360
 atctcactct gaaacaaaag aacgagtgcg gtcatgttct gatgcttctg atgttcttag 420
 atatgctttt actttgacag a 441

<210> 41948
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F8

<400> 41948

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 atctacaccc cctcgaagaa gatctatatc ccctcgaaga tcttcacaca agaagagggga 120
 atcaccaaga aggggagact cacctaagag gaagcactca cctaagaaga aggagtcacc 180
 aaagaagaga gactcaccaa ggaagagaga ctcaccaaag aagagggatt caccaaagag 240
 gaggagggac tccccaaaga aggggggata ggtcaaaatc aaggtcacct tcaaagaaac 300
 atgacacttt tagacataaa aaagaacat 329

<210> 41949
 <211> 249
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F9

<400> 41949

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 tggacatcaa ccttggatgg agctccccac tggcacttca cgaagtccag caaccttgca 120
 ctgaccttgg tctgaattga aggagagtat atgttacact atcaacatat ggatttttaa 180
 cctttttgtt tcttctcgat gacttggcta ctgtctttac tcacaattca aacttgtgat 240
 tttattttt 249

<210> 41950
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G1

<400> 41950

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attgttgaaa atcctagaag gaactgttgt cagtattcct gagaaaggat cacgcaagaa 120
ttctcgcaat gacagtatac agatagacac gacagatatt ctttttatat gtggtggtgc 180
ttttgtggac ttggaaaaga ctatttctga aaggcgccaa gattcatcca taggatttgg 240
ggcaccatt cgtacgaaca tgagaagttc tggagctagc tgtccaatgg ttacctcatc 300
tttattagaa tctgttgaaa gtggtgatct tgtaagatat ggtctaattc cggagtcatc 360
tggtcgtttg cccattctag taagtttggc agctctgaat g 401

<210> 41951
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G10

<400> 41951

aaaaaaagggt caatatcgggt tactgtcatg gagagaagtg catactgcag ttccctattg 60
attgtatggt acattttctg taagaccaca gagaattgca ggagaatcat ggccctacta 120
cagtcctaca gtggtgtggc aataataata catctgggaa gtccatgcc agccacaact 180
ttcccatatt atccaaagaa taaacagagc ttacggaga aataagaaaa accaaacaac 240
tagaacctcc taatctgcct ttgtcaactg caaaacatga aaggcgggaa ctggtctgca 300
gcactagaga gtaacaaggg taaagatgac ttgcattata taaagtatga actcttcgac 360
aggggtataa atttcaatgg atcttgtgca 390

<210> 41952
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G2

<400> 41952

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acagaacaaa cccatcaacc atggcgaaact cggcgctggg gatggccgtg agcgacgagt 120
gcaagctcaa gttccaggag ctcaagtcca agcgaagctt ccggttcac acgttcaaga 180
tcaacgagca gacgcagcag gtggtggtgg acaggctggg gcagccgggc gacacctacg 240
acgacttcac cggctccatg cccgagagcg agtgccgcta cgccgtcttc gacttcgact 300
tcaccaccga cgagaactgc cagaagagca agatcttggt catctcctgg tccccggaca 360
cctcgagggt caggagcaag atgctgtacg cgagctccaa ggaccgggtc aagagggagc 420
tggagggcat tcagctggag ct 442

<210> 41953

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-013-Q1-K1-G3

<400> 41953

cacaaggaac tacatgaccc agagcctttg gggcccttca atgtctgtta gcggtggcgt 60
caatgtccca gtgatgcaga ccccgctctg tgctaagtct cctgctgaga aaggaggcaa 120
gaacttcattg attgatttca tgatgggcgg tgtttcagct gctgtttcaa agactgctgc 180
tgctcccatc gagcgtgtga agctgcttat tcagaaccaa gatgagatga ttaagtctgg 240
taggctatca gagccgtaca aggggtattgt tgactgcttc aaacgtacca ttaaggatga 300
aggtttctct tccttgtgga ggggtaacac tgctaattgt attnctact tccctactca 360
ggctttgaac tttgcattta aggactac 388

<210> 41954

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G4

<400> 41954

gaagagccgg attgccaga agtgttccgt tcccagccgc ggaggagagc ggcggacggc 60
 ttccctgccc ctgccggccc ccttccctga gttccctcagc gagaacggcc tggaccctgc 120
 ggtgtactca atggcagcca ccatcccgcg ctacataagg ctaaaaccag gcatggagtc 180
 caagatcgca gagattgaag ccgagttgaa gtgtgccctt gacaagggtt tatggctgcc 240
 tgggttctat gcgattccgc cggaaattca gattgctggc tccaaggctt atcagcaagg 300
 gaagatctat ggaattgatg ccgcttctgg agctgctata ttagcacttg atgttogacc 360
 aggaaatcat gttcttgacc tctgtgctgc cccaggtgca aagctttgca tgct 414

<210> 41955
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G5

<400> 41955

gctgcctgga ggcgggctcc tcgtgttcca gagcttctgt gctgctgaag acgctgttgc 60
 tacctcgccc aaatctgttt tccactgctt tgacggcgag aacgtggaga gtgctcctcc 120
 tcctatgaag aaggactaca aactggctaa tcttctatgc tgggaggagg aagcggatgc 180
 catggaggag aaggcgggag tgcttgatga gtaagacggg cttctggggc cgatttgctt 240
 ctgagttgtt tattttatat cgtcgcaatt tcgtggttgc cgtttggtta ttctgtgaag 300
 cagccaagcc aagctattgt tatgaaaatt tgcgtctgt aagcatgtga acttccgacg 360
 ttgccacatg ctggatcagt ctgaataagt aagtatgcag ctctaggtgg tcagctgcgt 420
 ctaccac 427

<210> 41956
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G6

<400> 41956

gcgtgcggca acgtcccat cttcaaggac ggcaagggct gcggctcatg ctacgaggtg 60
 agatgcaagg aaaaacctga gtgctcgggc aatccagtca cgggtgtacat cactgacatg 120

aactacgagc ctatcgctcc ctaccacttc gacttgagcg gcaaggcctt cggtccctg 180
gcaaagcccg ggctcaacga caagattcgc cactgcgga tcatggacgt cgagttcaga 240
aggggtgcgat gcaagtaccc cgccgggcag aagatcgtgt tccacatcga gaagggtgc 300
aaccccaact acctggccgt gctggtgaag tatgtggcgg acgacggcga catcgtgctg 360
atggaaatcc aggacaagtt gtcggctgag tggaagccca tgaagctctc ttggggcgcc 420
aatctgagga tggacact 438

<210> 41957
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G7

<400> 41957

ctctgctgaa gatgtttggt gacttccata atgatacagc tgaagagcgc aatgtccgct 60
ttggagtcag agagcacgga atgggcgcca tttgcaacgg cattgctctg cacagaccaa 120
gggttgttcc gtactgtgct acattctttg tcttactga ttacatg 167

<210> 41958
<211> 367
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-013-Q1-K1-F12

<400> 41958

cacgcgtgcg cttgaatgga actttcttga attccatgca gntcatcatc caaatgctga 60
gtggaggggt tggggtgaac ctgctgaact tgcacatggt gatattataa ctctagggac 120
ttcatctaaa ctatctgttc aaattacact gcaaaatcaa cgagttcctg ctggtgttgg 180
tatggcatcc gatccaatgg tggcacgtag aagtggaaag aaacttccaa tggaagacat 240
aagcttttgc cagtgtcttc tgcagggtgt tgaacatttt gggctctttg gaatttttga 300
tggacatggt ggggatggag ctgccaaagc tgtcagcaag attctttcaa aaaatctggg 360
atacatg 367

<210> 41959
<211> 156
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G8

<400> 41959

aaacccatca accatcccaa actctgcttc gtttattgcc tttacgacg actgcaatct 60
caacttccat tacctcaagt ccaagcta atcttctttc atcaccttca acatcaacgt 120
acatactcta tcattttatt tttattttatt accaac 156

<210> 41960
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G9

<400> 41960

cgccagttca gccacgtgga gagggcagat cctagaagag ccggcgccat gagctcggcg 60
gcggggtcca ccactcggc cggcgaaaac gtcgcttatt ccactcgacgc gctctaccgc 120
aaggaccaag ccctggctga actcaagtct gaagtgatgg aagcccttca aaagg 175

<210> 41961
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-D3

<400> 41961

gtatatattg caaaggtaca ctgtcttatt aagaaaagat gttccgtttg aaagaattga 60
taagagcttc agggggaaga ttggagttac taaatcatatc agacagaaaa tgttggttaac 120
gaaaacaatg aaagtagttc gccaggcgtg tatgtcaaaa gcagggtacg ataaggcgat 180
ggatgtgttg gatgagctcg atgtcgttct aagccgattg gagccagata ttggatgtaa 240
tgagtcaaca gatgttagtg ataatgagga agacaaggaa gaagagttga ataaaaataa 300
tgctggcaat gggatggaag atgacaatac aattacatgt cataataagg attcgcataa 360

caccaggtct ggatgtgaac atgcgttaac aataataaca act

403

<210> 41962

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-D4

<400> 41962

ccagggccacc tgccgggaga tctattttca ggtgttggtg ctccaggaag tggcgggtga 60

tcaggtatat ttgggccagg atttccagag ttagagcaag ttgagcagca ttttaagccag 120

aatcccaact tgatgaggga gataatgaat atgccagcga tgcaaaatct catgaataac 180

cctgatttaa tacgcaatat gattatgagc aaccacaaa tgcgcgagat catggatcgg 240

aatcctgata ttgcccattgt gctcaatgac ccaagtgtcc tccgccaaac cctcgaagct 300

gctaggaacc cttgaatcat gagagagatg atgcggaaca cagacagagc tatgagcaac 360

attgagtcct ctctgaagg ttttaatatg ctccgtcgca tgtatgaaac tgtccaggag 420

ccattttctaa atgcaacaac aatgagcg 448

<210> 41963

<211> 126

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-013-Q1-K1-D5

<400> 41963

ggactgcctt gatattggtg gcttgaattt tgaacataa aaagctactt tgcccaggtt 60

cacttttccc ctctcaacac gcctcataac atcactttcc aataatttta tactaccaat 120

aaacat 126

<210> 41964

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-D6

<400> 41964

cgcaccggca ccaccaccaa ccgagcgggt ccaggctcct gctcaggaag gggagaagag 60
 gcgagccttc cttgggaagt cgcaggagga gagaagggga acaaagatgg ggcgcggcaa 120
 gatcgagatc aagcggatcg agaactccac caaccgccag gtgaccttct ccaagcgccg 180
 caacgggatc ctcaagaagg cgcgggagat cagcgtgctc tgcgacgccg aggtcggcgt 240
 cgtcgtcttc tccagcgccg gcaagcttta cgactactgc tccccgaaga catcgctatc 300
 aaaaatcctg gagaagtacc aaaccaactc ttgaaagata cttgggggtg agaagcacia 360
 gagccttaat gcagagattg accgtattaa gaaagagaac ga 402

<210> 41965

<211> 141

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-013-Q1-K1-D7

<400> 41965

acgaaaaccc tcgcggcgag ggcgctctt cgttccacac acgcgcgccg gagnettcgg 60
 agggcgcacc tgccttcacg acttgctggg ctctgctgct actcttcttg agcgcggggc 120
 ggagcacggg gacatcaaat g 141

<210> 41966

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-D8

<400> 41966

cgcagagata ggcgtcttcg tactcgcta cctccggggg tcaaaccttt ccccttcgg 60
 ccggttcccc ccgcgcctcc atcccgtaac gcgacaccat gagggagtgc atttcgatcc 120
 acatcgcca gcccggtatc caggctcgaa acgcgtgctg ggagctgtac tgccttgagc 180
 atggcattca ggctgacggt cagatgcccc gtgacaagac cattggggga ggtgatgatg 240
 ctttcaacac cttcttcagt gagactggtg cttggaagca cgtgcccc 288

<210> 41967

<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-D9

<400> 41967

ctgcttcttc tagctcatgg cctggccatt ccatgtcgcg ctggctgctg ttcatttcat 60
gggagaaagc aagggtggat cacaggggtgg cgtctgcta aataaactac atacctttgg 120
ctttaagac tgggttgggg gattggtaca catcacaaga cacattgggc aaattttttt 180
ttcacagaag gagtagggga tgggttaaac attgggttaa tccccaccc cggggttttc 240
cgtttcccg tgtgttaaca tgaccaactt ttgttgcaa tggggctaaa aataaattta 300
ttcctctttt attgaatggg ttg 325

<210> 41968
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-E1

<400> 41968

gcatcgttcg ttcattcatc aactactgta aattagagag ccgatctct tggtcggaga 60
acctgagagg aaggactaag gagtcgaaga tgactgcggc ggtgctgtcc gtgcgcacga 120
cgacgacgtc gctgctagca gcagtcattc tgtgcctctg catcgtctcc ctctcccccc 180
gcggcgcgcg tgccgcgcgg gtctcccccg ggcgcagccc gatcgtggcc acctgcatga 240
cgggcccgtc cccggagctg tgcgtggggg agctgggaca gcggctgctg gacgtgcaga 300
cgtcgatcgc gtccgcggcg cccgaccagc gcgcgggcag gatcgcgggc gccccggggc 360

<210> 41969
<211> 247
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-013-Q1-K1-E10

<400> 41969

cccacgcgtn cgagacaaat atacttcata gggaccaaaa tacttaacgc gatgaagcag 60

gtgagtgggtt gtgacattgc ttcaccaggc gtaccttcta tggcttcgca gtgtatccct 120
 tccacaagtc gttcgacatc tccatcaagt gcaatttcgg ttgatagatc catgttggaa 180
 gctgcacatg aaaaggagaa agagctgctg aatgaagtct tggagctgca atggcggtta 240
 ctatgca 247

<210> 41970
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-E12

<400> 41970

acagcatagg ggtggttctt ttgtcatgtc accatctttg ttgcaccaac atgctccagg 60
 cagatcaatc agggagcagg aagtttcatc cggagtgccca ccaactaaag cttcacaagc 120
 tatgatggat gaaccgcttg aaaatgtcaa tggacaaact gaagagttgc catcagagct 180
 accctgctcg atcaagagac caaaattttc agttgcagaa cttctagaag acctacaggg 240
 tagaagtggg tcttatgttg agacatcatc tttgtcacac caacacacca gagctaaaca 300
 ttggaagcca aagttccttt ctttcogagaa gaaaacaata gctattctag gagacaggag 360
 tattgacagt gaagaccctt tggagcatgt cattgacgga acatctagcg aggaggaaga 420
 ttcttcttaa aaccacttga gtttg 445

<210> 41971
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-E2

<400> 41971

gctcgcgtaa cctcctgcc atggctggag gcggcgggcg aggcgcgggc tcgtcgtgcg 60
 gcggcgggcg agggggcggc agggagggcg actgggactg cggcagctgc ggcaaccgca 120
 actacgcctt ccgctcgctc tgcaaccgct gcaagcagcc gcgcctctc gtcgacccca 180
 acaccccgcg cgactccaag tggctacccc gcgccgggga ctggatctgc accggttgca 240
 gtaacaataa ttatgcatcc agaagaact gcaaaaagtg tggcttgccc aaggaggaag 300

cagcaatgcc agcattgcaa atggcagggga tgactatgcc aacttatgca acttatatt 359

<210> 41972

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-E3

<400> 41972

cggacgcgtg ggcggacgcg tgggggaact tcatggaatc gcaatttttg taggggtgtgg 60

ggggagattc cacgactgta aatatgatga gatatgaaac agaaaagggg gtggcagatc 120

aacatcgacc ttctgtaatt agccagaata aaagaactag atgctttata ttgagcagag 180

ctctcgtctt ttgatcctc cccacgggtg agtatcaaga atgaataaat cttctgtttc 240

ttgtctggtt gtagcatgcc agcatctgta agttgtaaca attcagtga tttatttacc 300

ttcagc 306

<210> 41973

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-E4

<400> 41973

gcatcgatca cgacaagatg gcgtgcacaa acaatgcgat gagagccttg ttccgcctgg 60

tcctcttctg catcgtgcat ggtgagaagg aagagtcaaa gggcatcgat gcgaaagcgt 120

ccgggcctgg tgggtccttc gacatcacca agttgggcgc ctccggcaat ggcaagacag 180

acagcacgaa ggctgtgcag gaggcacggg catcggcgat cggcggcact gggaagcaga 240

caatcctcat acccaagggt gacttccttg tcggacaact caacttcaca ggcccttgca 300

agggcgacgt gaccatccag gtggatggca atctgctggc gaccacggac ctaagccagt 360

acaaggacca tggttaattgg atcgagattc tacgcgtgga taaccttgtc atcaccggca 420

agggaaacct tgacgggc 438

<210> 41974

<211> 265

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-013-Q1-K1-E7
 <400> 41974
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 atggttgtgg ccgtgtcctt cttggtgagc cgcgcatggt gccgtccttc caaagtcccc 120
 cctggcaaga acatcacggc cacctatggc aaggactggt tagacgccta agcaacatgg 180
 tatggcaagc cgacgggtgc cggccccgac gacaatggtg gcggctgcgg gtacaaagac 240
 gtgaacaagc ccccccttca tagca 265

<210> 41975
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-013-Q1-K1-E8
 <400> 41975
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 cctactagcc gtaatggggc ccgaacaaca ccagcggccg gtggatggga tcgctgcccc 120
 ctctgtcgt cgttgcccc a ttggtggagg cccgaacagc acctgcaacc ggtggatggg 180
 atcaccgcac cgccccctgc cgttgttgcc ccatctgtgg agcacctcgt ggccgggggat 240
 gccgccccat gcgaccaacc agctcaccct ctctttccat ggcgagtttc attccaggca 300
 gatggactcg cacagtgtcc aagacgtgct tttactgctt ggaggaggagg agctgagtag 360
 tctgggtgga gca 373

<210> 41976
 <211> 196
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-013-Q1-K1-E9
 <400> 41976
 acgggatcca aaatccacca cgatgagcat ctttggccgg ccgaaagccg cgggccccgg 60

cgggcaagaa gccgaagtgg aagcccttat cccggccggg ccagaagccg tgctccttaa 120
 gctcaaaggg aactcccacc tcgtcttctc gggctncagc ccttctttcg ctgcagcgcg 180
 cggaactcga tcccct 196

<210> 41977
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F1

<400> 41977

tgctgttctg gttgttttgg ggattgttta gcggagccac ttccttgccg ttgtgcgaga 60
 gaaactggcg gagactttgc ttatacgaga gatggcctgc ttaaagaagg atttctagat 120
 gcgtgtgtct caatgctccg ggaaccactt aaacaaccgc acttctactg taaggggtgc 180
 tgctctattg agcaaataat gaagggagtc agctcagcga aacctgatgc ttgtaaaggg 240
 caccttatta agaagtttat caaggaatgc tggataaaat gcggctgcac cagaaattgt 300
 ggaaaccgtg tggttcagcg aggcattact cgcaaactgc aagtgttttt agcttctcgg 360
 aaaaagggat ggggcttgcg ttctgctgaa aatcttctc gtggtgcttt tgtatgcgag 420
 tatgttggtg aaatattaac aaacac 446

<210> 41978
 <211> 298
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-013-Q1-K1-F10

<400> 41978

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 gcacagcacc atggcgcgcg cttcacgctc cgteccgacg cgtcggtcga gtactcgagt 120
 cgtcagcggt cggtcggcac tcggcaccg attcttccaa agccgccact tatgtcctcg 180
 cgagcttggt taataacgcc gcgtgagctg ggtgggtggg gagtttgtca gctgggtggc 240
 gcgagcgtca ngcgtatggcg gaggcggggg aaaaggcgag ggtcgtggtg gttggcgg 298

<210> 41979
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F11

<400> 41979

gtgccggact gggagaaatt gggaggggttt gagtaggccg ccaagtgctc cttgccacgc 60
agagagagag ggcattgtacc actactgtta atcccgcctt acaccatctc ttgggggttca 120
agcagggggg ccacggagca cgaatgaagc tcatcaggtc tcctctgtgg gtccgtacgc 180
cgggcggttg gccggaatct catgggattt cttgccggag tatggcggtc gttgtgggat 240
tacggtgcca tggcggtttg ggtctcagaa aacggcttgg gatgatcttc ggaccctatt 300
gatgaggtgc gtgcgcttga ttcgaactaa ggtcaaccgg ggatcttggc aattggctcg 359

<210> 41980
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-D2

<400> 41980

ggcggtggac gtcaaggaaa agggctctta cacgtacgag cccctcaagc actcgtgggg 60
cgccatctgg aggaaggaca ggcacaaacc gcttaaggga cccctcaccg tccgcctcac 120
taccgagga ggcaccaaga cgtctacga cgatgtcatc cctgccaaact ggaaggccaa 180
caccgcctac accgcaaata aattaacttt agtgctgaca atactttaag tcggcctatg 240
ctagctatac tagattgggt tggatcccaa gcaatgcatt acacatgcat gcattggacc 300
gtgatatcta ttgtctacca ctaccctatt acgacagtga tgctggcgcc aacaataatg 360
gcgtcatcct cttctccat cttctccatc ttcatatata gctagagtga gact 414

<210> 41981
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-B6

<400> 41981

cgccgatctg cccatgctcg gcgttgctc cattggtgcc gccaaagtct gcctcacccg 60
 cggagggtctt gccctaccca gctactccga ctctgccaaag atcgcttacg tctccaagg 120
 caagaattcg tttttttaat cctataaaaa aaagcatctc cgtgtcacat gcatgcgtgc 180
 gtcttgatgt atgcacaggc aaaggtatct tcggcgtggt tctcccgag gcgaccaagg 240
 agaaggatcat ctccgtcaaa gaaggcgacg cgatggcgct ccccttcggc gtcgtcacct 300
 ggtggcacia caacgccg 318

<210> 41982
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-B7

<400> 41982

gaagtggtag gggtatttct ggtgatgtaa ttagttggg aagccttact tctgctcatg 60
 ggatgggcaa catttcaagc cttggatcag gaaaccttgg ccgtggaacc ggagataaca 120
 actttggctt gccttctgga aactatgtta ggagcaactc aactgggtaca attgggtgagc 180
 cattttctgc atcagccaat gcatatgaat cgaacaatcc aggtgcatat ggcagcagct 240
 ctatttatgg tgactcaacc tggagggttca actcatctga ggttgatatg cctccttttg 300
 gtcagatctt tggaaatgat gatccagata tcaaatcaga aatatcagca agctatatgg 360
 gcaactatac tgtaataaac aatcagacia g 391

<210> 41983
 <211> 332
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-013-Q1-K1-B9

<400> 41983

attcgcgagt tcttcctcct ctgccgcat ggcgctctct ggggagaaaa cctcgtctgg 60
 acgggagtag aaagtcaagg atctctcgca agcggacttc cgtcgctcgc agattgagct 120
 ggccgaagtc gaaatgcccg gcctcatggc gtgccgcgcc gagttcggcc cgtccaagcc 180

cttcgccggc gctaggatct cggggtctct tcacatgacc atccagaccg ccgtcctcat 240
cgagaccctc accgcgctcg gcgccgaagt ccgctggtgc tcttgcaaca tctttctcac 300
gcaggaccac gccgccgncg ncatcgcgcg cg 332

<210> 41984
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-C1

<400> 41984

gategaactc ccgtccccgc gtggaggaga gcaggggccc acgagggccc tctcgcgcg 60
cgaccccgctg gcgttctctg gcggtctgtt ctggttcggg tcggcggggc ggaggcgggc 120
caaggcctcg cccttgccct ccccgccgcg cctgaccgcg gctgcggcgg cagcggacga 180
cgggggccaag atgaagggcc tcttcaagtc caagccgcg acgcccgtgg acatcgctgcg 240
gcagacgcgc gagtgcctcg tctacctga cctccactcg gactccagga gcggcgatgc 300
caagcgcgag gagaagatga cagagctaag taaaaatctc agggatatga agtctatcct 360
ttacggcaat ggtgaatcag agcctgtaac tgaagcatgt gta 403

<210> 41985
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-C10

<400> 41985

ggcagcacct ccgtccatgc cggcgccgctc ggcggcggag ccaagcggag gcacgcgtagc 60
ccccgtggcc gtggtggcct cgcatttctg cccccctac gtggtgcaac ttgcggtgaa 120
agagaagaag gtgagccttc gggaaggcga ctttaccatt accgacacca acggggccgt 180
cgtggtcacc gtcaaagggtg ccttgatcag cattcacaaa cggcgggcggc ttcttgacgg 240
cggccggaac ccccttcttt tgc 263

<210> 41986
<211> 380
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-C11

<400> 41986

cggcacatctcc cacaggacac cgagacttct tctcagctcg ccgagtactt caacgtgacc 60

gacgggggtgg ttcagctaca accagatggg cgacgtgccc cccgccgtta acggggccact 120

ccatgtcatc cccaacgtca tcaccgccga gttccggacc ttcacgcaga tcgtcttcga 180

gaacccccgag aagagcatag actccctcca cctcgacggc tacgccttct tcggcgtcgg 240

gatggggcct gggacgtggt cgccggagat gaggaagacg tacaacctac tggacacggt 300

gagccggcac acgatccagg tgtaccgcgg gtcatggacg gcgatcatgc tgacattcga 360

caacgcgggc atgtggagcg 380

<210> 41987

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-C12

<400> 41987

aatttgagga gagaaagaaa gaaagagtta tcgtcatgga gagcaggagg aagaatcagc 60

agaagacgag ctacattgta atttccatcc agctcctagc ggccctccta ctcttgagc 120

ttgtgtcgt agtgccgggg gcgtcatgcg aggagttgcc cttggatttt tgggtgagtg 180

cactacgggg ggtcggggca aaagacgttt caacagccga tggatgcacc aagaagaata 240

aagacaccgt gctctgctct gccaggcta acacggtaac caatttca 288

<210> 41988

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-C2

<400> 41988

ccagttctgg gaagagaaag cctgtcctag ttatcatatt cagggacggt gttagcgaga 60

gtcagtttaa tcaggtgctg aacattgagt tgcaacaaat catcgaggct tgcaaatttc 120

ttgatgagaa atggaatccc aagttcacgt tgattattgc ccagaagaat catcacacta 180
aatttttcat tcctggaaag ccagataatg tcccaccagg aactgtggtg gacaacaaag 240
tctgccatcc aaagaacttc gattttctaca tgtgtgcgca tgctggaatg atcgggacta 300
cgaggccaac tcactaccac atcctgcatg atgagatagg cttcagtcct gatgatctgc 360
aagagctggt gcattcgctc ttttatgtgt accaaagagc acaac 405

<210> 41989
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-C3

<400> 41989

gaatttccca caagacaaat caaagatacc tgcagcaagt tatctaattg agcttgcagc 60
cattgactgg ttttaaggaca ccaaacgtat ggataacgtt gctaggcaga agggttgtgt 120
tgctcagggt gctgctgaga aagggatgca tacatttatt gtcaacatac agattcctgg 180
atcaactcag tatagcttgg tcatgtatgt tgtcacaaat accttgaaga agggatcatt 240
actacaacgt ttttttgatg gcgatgatga attctgcaat agcagactaa agcttatacc 300
atccgttccc aagggtcctt ggtagtgcg acagagtgtt ggaagcacc cttgtctgtt 360
gggaaaggct gttgattgta gttacgttcg aggtcctgca tacttggagg tggacgttga 420
cattggatct tcggcggtag caaatggag 449

<210> 41990
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-C4

<400> 41990

cggacgcgtg ggccaaacca caggaagaag cgagcagggc accgtgtttt ctcgagcgag 60
ggcatcggcg cctgccgatt cctacgggtg cgcggcgtgc ggcgcgctcc tggacctgtc 120
ggcggcgcac ctgtacccgg cggacttcta cttcgaggcc gggaacaagg gcacgctgtc 180
cttctcgtgg gtggacgagt cgcgcctgcg gttcgcgccc gaggaccgca tccgcccctt 240

cttcgagacc ctcaactact ggggcatcca gcggaagcgc acgcgcatca gctgcgacgc 300
 ctgcggccac ctgcttgcc acgtctacga cgacgggtccg ccggccatgc agggcaccgg 360
 ccagttcggg atggggccca gccaggtcaa ttccgcgccg cccaggtacc 410

<210> 41991
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-C5

<400> 41991

gccaaaatca acctacattg gtgttgatta cagaagaagt gcagattcat cgaacagata 60
 cttttcattg gcattcgagg tcccaaattg ttgggtcaaa taaaaagatt gtttcacttt 120
 atcaattatt ctatcacttt tttttttttt tattaaaatt catttatata tatattattt 180
 tttttatttt ctattttttt tattttattt ctttttataa atttttatat attttttttt 240
 cttttttata tattattttt tttttttttt ttttctatat tttttatctt aatttaattt 300
 ttgttggtgtt aatttttttc tattatctat ttttttactt atattt 346

<210> 41992
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-C6

<400> 41992

catccaccga agggagccta gcgtgaagtt gtataattat gccgcggcat ctaaaggggc 60
 taaggttctg gatttcaata aggaggctaa ggggtgcttc aacatcttag ataaagacaa 120
 agacaagtac ctccgcaatg cttgctcagc agaggggaag tttgtcatca tagagctttc 180
 tgaagaaact ttagtagata caattgcaat cgcaaatttt gagcattatt cgtctaatec 240
 aaaagaattt gaactgctga gcagtctgac atatcccaca gaaaactggg aaactcttg 299

<210> 41993
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-C7

<400> 41993

ctatgttttc acagacaacc aattcactgt gactgcttac acctgggcag tggcctacct 60
agcaagcatg tccattgatt tcgtgtacat caagcatgtt gtaatgacca ttgggctgaa 120
cacatggggc cttgtgctat acaacaacct tgaggccttg atgctattcc cactcgagct 180
tctcgtaatg ggagaatttg atcagatgaa ggctgacagc tccaaagtgt caaactggct 240
ttcatttgat gtggctcctc ctgttgctct ctcatgcctg tttggactat caatatecct 300
cttcggattc tcctgcagac gagctatttc tgctactggg ttcacagtgc ttggcatagt 360
gaacaagctc ctaactgttg tgattaattt gcttatctgg gacaagcatg cctcttttgt 420
ggggtaccat tgggctcttg atatgcat 448

<210> 41994

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-C8

<400> 41994

gccttaccct cgaagccgaa ggctcgtgc cttctcttcc tccctggcat ggaggaagta 60
gctgtttcgc ctatgatcgt tgccgccgta gtgctggaca acaatggcgc tgacgcggtc 120
tcctgcactg ccattccctag cgtaacaata agcctagagg agaaagaaaa tatcaatggg 180
gatgttccca cgatcacctc ggccgcaagc aacgaggagg aggcgttggt cagtgtcgga 240
gaatccacca aggacgatgg ccattgcttg acgatggaat gctccactcc cgtctcctcc 300
agtagccctt ccaactcgaa gaagcgc 327

<210> 41995

<211> 316

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-013-Q1-K1-C9

<400> 41995

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aaggggagga gaaggcaagc tacaaaggtg ctacgcctgg gttccggccg ctccctgtca 120
 tgaactggct tcacgtctcc tcgctctct tctcgttctt gctgcgcctc tctcatactc 180
 gcncgcacat atccagatcg cgcagccgta ccgcgacctc tctcgtgctc ggggcccgcg 240
 cgcccggcgc gggaccagcg ggggaggcct cgcggctcca cgcctgcctc cggttcctcg 300
 ccccgcccaa cccac 316

<210> 41996
 <211> 354
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-013-Q1-K1-D1

<400> 41996

agaggatcaa ggagatgttc tcccccttct cctcttgaag atttcttggg gaaaccctag 60
 gtggctacac tccagatcat gtctagtaca tttcttcttc ttcatgaag gtgcttgttg 120
 ctcatcaagg ggagtgggaa gtagcagcac atccaccttc attctcataa taatgctgcc 180
 cagacgcagc catgatttaa ttagaaactt cttgtcaaag gatgtttgtt tttaactagt 240
 cgtgcgcact gattaattca gttcatgttg ttatggttgt cttccattg ctagcagatt 300
 attaattgtct tatatgtttt cttatcatga tatctattta tactttgntg cttc 354

<210> 41997
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-D12

<400> 41997

cacacttttc tctctctgta tgttgtgtaa ttcaatgtgt tttcatgaac acacatgttg 60
 aatggagtag tttgaattta aattacattt gacttgcttg taacatgatt tcatgggtac 120
 cttatttgca gttgaggggt cctattttga gaagttctat aagcaaacgg ctgatatgga 180
 tccagctcag cgtgctgcct ttctcgagga agatgatgag atggaagatg cacattctgt 240
 tgctgcatct gctggtgaca ctgatgctaa tgttgatgtt aatgaacatt ttgtatgttt 300

ctcctgtggt gatggtgaac tttatgagct tgatggacga aaatcac

347

<210> 41998

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-B5

<400> 41998

aaaaaaaaa aaaaaaaaaa aaattatttt taaaaaaaaa aaaaaaaaaa aaaagaggag 60

gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

agggccgccc cttttaaaagg atccaatctt acttccccctt ccttgcggcg ccctctttttt 180

tttttcgggt ccctaaattc catttctttg cccgttggtt tacaacttgg ggcttgga 240

aacctttcct ttccccactt taatccccctt tcggcacatg caactttcgc cggttgccaa 300

aataataaaa aggc 314

<210> 41999

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-A1

<400> 41999

aaagtgggtt ggggtgtgaaa actgttgctt ggtcaccatg tggacagttt ttagcagggg 60

gaagctatga tcaagcagta cggactttga atcacttgac gtggaaaact tttgcggagt 120

tctcacatgc agggatatatt cgtagtcctt gcaatgctgc tatttataag gaagtggatg 180

acccatggca gcttgatatg tcggaattat gtctaagtga aggcctctct cgtaacatgc 240

cagacaatgg tgcagaaaat ggcaccgagg gaggaggctc tagagttaaa tatgctgtga 300

tgatgttcc catcacctta ccttcgttga aaccagcttt tgacaagcct aaccccaa 360

aaggcattgg tatgctgtca tggagc 386

<210> 42000

<211> 217

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-A10

<400> 42000

ggtggtggcc ccgcctgaga ggaaatacag tgtctggata ggaagatcca tccttgctg 60
cctgagcacc ttccaacaga tgtggatctc aaaggctgag tatgacgagt caagacctgg 120
gattgttcat cggaagtgtc tctaagctct ggggtccccct tcggcttcat tttatttatt 180
ccttgagtgg ttttcatata aactactaat gttggga 217

<210> 42001

<211> 175

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-013-Q1-K1-A12

<400> 42001

cccacgcgtc cgcccacgcg tccggggccaa gnacgtaaga agtcntntaa ttnnattggg 60
atcgaataaa ctccattattg gggcctctct tcattagcac gctcaccagc ttgtaatctg 120
ccgcatctaa gcaaagactt cattcactta ttgactgatt tgtacgcctc ttgaa 175

<210> 42002

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-A2

<400> 42002

gaagagtcaa agggcatcga tgctaaagcg tccgggcctg gtgggtcctt cgacatcagc 60
aagttagggcg cctccggcaa tggcaagaca gacagcacga aggctgtgca ggaggcatgg 120
gcatcggcgt gcggcggcac tgggaagcag acaatcctca taccgaaggc cgacttcctt 180
gtcggacaac tcaacttcac aggcccttgc aaggcgacg tgaccatcca ggtggatggc 240
aatctgctgg cgaccacgga cctaagccag tacaaggacc atggtaattg gatcgagatt 300
ctacgcgtgg ataacctggt catcaccggc aagggaacc ttgacgggca gggcccagcc 360
gtgtggagca aga 373

<210> 42003
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-A3

<400> 42003

gaagaaggct actactgcta ctggctctga tgaggaccac tcatectctc caactcgag 60
 ccatgatggt gacaaagcag ctgcagatga tgatgacgat gatgtccagt ggcagactga 120
 cacttcaatt gaggctgcga agcagcgcag gcaagagcag ctgagtgcag caactgctga 180
 aatggtgatg ctgtcgactg aggagactga gaagaagatg aaacaggcaa cccacaaaga 240
 tggaagcact aatggttcag caaaagaaat ccctaataac aagcctgccg tcactaagcc 300
 tagtccctat gaagaactga ttggagacat caaggctagc ctaggaagtg ctccgacccc 360
 taccagc 368

<210> 42004
 <211> 297
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-A5

<400> 42004

ctcctcgctc ccatctctct cccacccgca tccaagggtt tccttctcga ccgtgcggaa 60
 cgagccagag aacaggtatg gcggcggcgc ggcacctcag atccggcctc cccctctctc 120
 gcgcccacct cgcatectcc gaatccgcgg ccgtcgctca ggtttcgagg ggcttcgcgt 180
 cgcaggccgc taagcccacc gggaaggaga tcaagggtcc aaaagctctg tttggcggca 240
 caggcaacta tgccagtgcg ctgttctcga cagcagctaa atctaatac ttggaca 297

<210> 42005
 <211> 204
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-A6

<400> 42005

gtatgacaga gaggcctttg gtagagagta ggctgctgac cgcgtgtaca tgcacgatat 60

aatggatgac ggtataaaca tgagcatcaa cagtatagtc cctgacctcc ttgatgattc 120
cattgaaggg gtgtaccgtt ttaagaagga tcctcgggca gatatgaagg cagcatctgc 180
aagactcaga gaagacgatg ggtc 204

<210> 42006
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-A7

<400> 42006

ttactatgtc atttgcccca ggagacgagc atgaggctca gatacaattg ccctagagcg 60
tggaattgca gcatatgtag cagtaattgg aacacaaaag cttccgttta ctgataatgt 120
gttcgatgtt gtacactgtg caaggtgcag ggtccattgg tatgcaaattg gtggaaaacc 180
attcgtggag cttaatagag tactgatgcc tggaggatat ttcatttggc ctgcaacccc 240
tgtctaccgt caagagcaaa gagactcaga tgacttgaat gcaat 285

<210> 42007
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-A8

<400> 42007

gagcgatgtg ctgttttcgat ctcagccttg gcggagatcg agagagcgat gtgctgtggc 60
ggcggcggtg gagcagcccc aggacgcggt gaaactcttc aaccgctgga ctttcgacga 120
cgtccagggtg aacgatattc cgctgaacga ctacctggct gtgactgcgg cgaagcacgc 180
gacattcctg ccgcactccg cggggcgcta ctccaagaag cggttccgca aggcgcagtg 240
cgccatcgtc gagcgctca ccaactcgct catgatgcac gggcgcaaca acggcaagaa 300
ggcatggcc gttcgcatca tgaagcacac cctggagatc atccaactgc tcaactgacg 359

<210> 42008
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-B1

<400> 42008

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gtcgaggtaa aaggacagca tgggtgagggc cagcgtgctc aatgatgctc tcaagtccat 120
gtacaatgct gaaaagatag ggaaacgtca ggtcatgata aggccgtcat ccaaggtgat 180
catcaagttc ctgacgggtc tgcagcgcca tggctacatt ggtgagttcg agtacgtgga 240
tgaccacaga gctgggaaga tctgtgtgga gctgaatgga agactgaata aatgtggtgt 300
tattagccca cgttttgatg taggtgttaa ggagatcgag ggatggacgg cgaggcttct 360
tccatctcgc cagtttggtt acatcgtcct aacaac 396

<210> 42009

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-B10

<400> 42009

gtcgacggct ccagcgacgg cagcagcctc gactccgaaa gccgcgtcgt ctacgcgggc 60
atgaagctgg ctgatacggg aatccgatgc gcccggcgcc ggcgcgggcg ccggggccgt 120
cgtccggttg aactgagaag cgtgcgtcca gccaaagcaag gtggtcaaaa ccgaaaacta 180
attaagggtc cgattgtgtg tccggctact actgttcttg ccataattat atatagatac 240
gcaaagtgtg gccaaagccta cccacatgca tgctattgca tgcctccgaa tatatattat 300
ccgactcgat cctgccaaat tggttcgtcg acttcattat atatatccca tccctttaat 360
ttaatggaga agtgtgactg ctgttcgtg 389

<210> 42010

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-B12

<400> 42010

cggacgcgtg gggtttgttt gagcatgtat aacctctcct ataaaagacc agtatgatgt 60

ttgtgtatga gttcaatggt atgtcgacta aggtagactg ttgtgttcga ggctcctcttt 120
 tattactggt ttcatagttt gtgagatgat catgatttca ttttttggtt tttaaatttg 180
 tacagtcaca gcaattgtcc ttttgccctac ctgtatcatt ctgtcatact atctgcaatt 240
 cagctatgca cagaactatc aaaagcaagc aaagatgctc tagagtacct gaggaaggta 300
 agggcatcta tttcttacca caaggcccaa accaatataa gtataatggt ttcatacaatt 360
 ggtctatgta aacctgtgta tgtgtatttt ttaatgcaat ctaattcat 409

<210> 42011
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-B2

<400> 42011

ccttcaccac catcacctcc accgttggtt aaatcaccgc caccaccggg gccgggtgagg 60
 tcacctccat cgtcagtga atcaccacct ccttcaccac tggttaagttc gccgccgcca 120
 ccagcgccgg tgaggtcacc tccaccgcta acgaaatcat cacctcctcc accaccgata 180
 aggtcgccac cccaccaca agcaaaactca cctcctccat cagctctaata agctcacct 240
 cctcctccga tgcaatcccc tccaccgcct gctccagtca gctcaccacc accacctata 300
 aaatcaccac caccggctcc agtaagctca ccacctcctc tggcgcaatc cctccacca 360
 cctgctccag tcagctcact accaccacct gtaaaa 396

<210> 42012
 <211> 480
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-012-Q1-K1-H9

<400> 42012

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 gtgtaggcat agctctgcag aaggaaagtt gggagcagct cggaacatg cagcatctgc 120
 tcaagatgag gctgcagaat ggaagaagaa atatgaaatg gctgccgtgc aggctaaaac 180

tgcattggag agactagcat cagtgcaaga acaaattaac aaaattgcac aagaaaggga 240
 aagttctata agggcagaat ttgcctcaca tttggaggga aaggaagagg aaataaggaa 300
 attagttgct aagattagag aagcggagag tgaagaaagt gtattgactg aacgctngct 360
 ggttgtggaa tcaaaaacac aaggccacaa caaggaaact accagcttgg agggatgaaa 420
 tcaaagaact aaccangcag ttagagtatc taagagatag agcagtatca tatgaaaagc 480

<210> 42013
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-013-Q1-K1-B4

 <400> 42013

aggccatccc gccacactgc ttctagcgct cgggtgctcaa gtccttctcg tacgtggggc 60
 acgacctggt gatcgccgcg gcgctcctct atttcgcgct ggccatcata ccggcgctcc 120
 caagcccgct ccgctacgcc gcctggccgc tgtactggat cgcgcagggg tgcgtgtgca 180
 ccggcggtgtg ggtcatcgcg cacgagtgcg gccaccacgc cttctcggac tactcgctcc 240
 tggacgacgt ggtcggcctg gtgctgcaact cgtcgctcat ggtgccctac ttctcgtgga 300
 agtacagnca ccggcgccac cacttcaaca cgggggtccct ggagcgcgac gaggtgttcg 360
 tgcccaagaa gaaggaggcg ctgccgtggt acaccccgta cgtgtacaac aacc 414

<210> 42014
 <211> 221
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-012-Q1-K1-G10

 <400> 42014

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 tgctccatac tttatattgt ttcttataac cattcgcaat tgccctataa taactcaaaa 120
 cttcattact aactttcttt tttttatttt tcacagtatc ataaaattta ctacaacaaa 180
 ttattctgca tctccaaaaa ctctataaat cttacacccc t 221

<210> 42015
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-G11

<400> 42015

ggttttgtta agaaattggc tagtgtatgt caagtgattg aactagggtg gaaagaagtc 60
 gagttgcagg taattttact taacttgaca aataaaactg gatttttaag gatccacttt 120
 agtaagcatt tctgcaaac agagtctttg attattgaga agccttacct tgactccctt 180
 ataaccagca tacccttgag agtctttcct ttagtcgggt aagacttgct gagtaattcc 240
 atactcaggg ttttattccc cgttgttttt aggtgaggaa gcgacaaatt tttgttgctt 300
 ctgctctaag gtggtgccaa aagaagaacg caaggaatga agtgcgtag gaaaggatcc 360
 tccatttagg acttttgtgt aaaaacttat cgggaggagt ttttgccctc cttggtatgt 420
 gtaataaata tactctgc 438

<210> 42016
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-G2

<400> 42016

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 cggggagctg agcgcgatgg ggttgctggc ggcgaagggc ggcagcggcg cgggcccgca 180
 gaagtgctcg ggcgcggtgg gcgagtgcga cgtggacgag gcggaggagc tcgggctgag 240
 cggcggcggc ctcggtccg acgacgcggt gcggcggacg ctggcgagc ggaagccgac 300
 caaccggtac atcagctacg cggcgctgcg cgcggaccac gtgccgtgca acaagcgcg 360
 ccggtcctac tacagcaact 380

<210> 42017
 <211> 363
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-012-Q1-K1-G3

<400> 42017

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ccaggagac tgattccgtg gtcttcaccg gtttgcttga tgagcttctg gaggccagtg 120
agccgcttcc tgctgcatca caatgaagtg tgtgtatata gcagttcggt ctggtgctgt 180
ttctgcttgc tgcatacacag gattacttgg ataacggtac gtatttgtat tggctgacat 240
atcttggtga aaggctgaca tactcgagaa attcgtagg cccatgctga actggatatg 300
ggctggactg ggctggactg gactgtaaaa ctcaatacat ggcaagattg cttgaaaana 360
aaa 363

<210> 42018
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-G4

<400> 42018

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tgcatgtcat cttttggtat acaaaagcct ggacaactat tgcaagggt actaggattc 120
atcaatggat ctgtgggaga ggtgtttgca gcttgacga tgtaataggt tgaattgctt 180
tattcacatg tggcggtgct atagttgttt agattaccat tactatatct caatatgtat 240
gctaagtacc atatctgctt gaatttatgt ttattgacat tttccccg 288

<210> 42019
<211> 368
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-012-Q1-K1-G5

<400> 42019

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cgcgggacct ccaacacgcc ggaggccatc acgctcaact gcgccaacaa cctgccatgc 120

cagggcgtgc agctcgtcaa cgtcgacatc aagtacaatg gatccggcaa caagaccatg 180
gccgtctgca agaacgccat cggcaagtcc atcggcttgg caaaggagct cgctgcac 240
tgaaccaatt gactaacatg catatattat atatataatc actcttcgta acctctctct 300
ttctcacgta ctctcaagtc tccaccgaat atataatccg cttgtttgtn naaaaaaaaa 360
aaaannna 368

<210> 42020
<211> 479
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-G6

<400> 42020

gcgacaagat atatttttaga cattttaagt ttgataatgg atccaagata tgttacttta 60
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ttcgttaaag tgcattccatt ctgctttaaa gcaatgtgca aggcaaattg tgctatagag 180
ggaaaattct ctgatgggtc ctatgtaaag gattacagat gtgaatcagg tggatttcac 240
tcagtgtgcg tttgcatttt ttgcaaacat tagttatcta aagacaagcg gagatatctt 300
cttgatttcc tatatgttat ttaggagtat tgccaaataa ttatacggta gcttagttaa 360
ctagctagtt tgttttattta tagacatatg tagcactagt taactagttg gtatttctta 420
aattatcagc tatgtaccaa gaaacatggt ttcagcgctt caataatata tctttgggtc 479

<210> 42021
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-G9

<400> 42021

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aagtgcacaaa ctgggggtact aggggtgtgt ttggcatggc tctgctccac cccagagcag 120
ctctactcta aaactctggg tggagcagct ctgctccaga gtttagattg tttctcataa 180
ccagtggcaa tggcgggttaa ataactcaaa actccatgac taggttgctt ttttgagtt 240

ttcagagcag caaaagaggt actccaaaaa attgtactgc agctccaaaa actctataga 300
 gtttacaact ctggagttag ggtgtttggc atgctctggc cagctcctcc ttggagtttt 360
 gctctggagc catgccaaac aggccctaag agtccgattt ccattcagct gcatatacga 420
 aatgaca 427

<210> 42022
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-012-Q1-K1-H1

<400> 42022

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 aggcgaagga tgggtgctgc ctcccgtgct gtcgtcgtcg tcgtcggcct cctcgtcgcc 120
 gcgtcctccc tcgccgtcgc tgcctccgat ggcgggtggc cgacgtacgg gtacacggcg 180
 gggagccccg acgggcccga gaactggggc aagctgagcc ccgcgtacaa gctgtgcggg 240
 caggggaagc agcagtcctc gatcgacatc gtcaccaagc agggccgtcc ccaacgccaa 300
 cctcgacacc ctcaaccgca cctacgccgn caccgncgnc acgtcatta acgaacggcc 360
 acgacatcac gatgacgttc gagggcaagg tcgggacggt aatggtgaac ggcaaggcgt 420
 acagcttcga gaagatgcac 440

<210> 42023
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-H10

<400> 42023

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 cgaaagggtc aatctgaggt cagtgaataa tgaagaacaa gctggatctg aaaatgatga 120
 tgaagggaac agcagacctt cctttttgtc cgtggaaaag ggcgctggtt ccttggacaa 180
 ggaactagct gccagtggat ttaccaggaa agagcaagtg gatatggata agtacatcga 240

ggaggttggtt gaagggcacg gttccagctc agatgatgac aatgatgagg ttggtgatgc 300
 tgtgcctttg gtttctttca agatagacca agacagttcc gatgagcctg attgtgatct 360
 taccccaagt gat 373

<210> 42024
 <211> 158
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-H11

<400> 42024

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 ggcacccgctc ccgatcccgga ccagctttga gatcgcgatg gcggacggcc gctgctgcac 120
 cttcctggag atcctcttcg gcatcactct cccggccc 158

<210> 42025
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-H12

<400> 42025

gatcacgaca agatggcgtg cacaaacaat gcgatgagag ccttgttcct cctggtgctc 60
 tgggtgcatcg tgcattggtga gaaggaagag tcaaagggca tcgatgcgaa agcgtccggg 120
 cctggtgggt ccttcgacat caccaagttg ggcgccttcg gcaatggcaa gacagacagc 180
 acgaaggctg tgcaggaggc atgggcatcg gcgtgcggcg gcactgggaa gcagacaatc 240
 ctcataccca aggggtgactt tcttgtcgga caactcaact tcacaggccc 290

<210> 42026
 <211> 175
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-H4

<400> 42026

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gggcgagctg tcccaccccg acaccgcaa ggccgccgtg gccgagttca tctccatgct 120
catcttcgtc ttcgccggct caggatcggg catggccttc agtaagctca cggac 175

<210> 42027
<211> 357
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-012-Q1-K1-G1

<400> 42027

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ctgcccgcgc tgctctccgt caccgacaag aaactcggcg tcctcaacta caccagggcc 120
gacgacgggc agatgtactt cggcgctccc ggcgccccct gcgtggccaa gctcgtgaag 180
gtcgtcgcag cgcgcccgta ctctgtgtcc atcatggaga tcagcgagcc cattttgccg 240
gccgcgttgc cctcccccggt cgcgggcgccc ggccgccgcg gcaaggggtgg taagcgcaag 300
atcaagccat cagcggcaac ccatgaggat tccaacatga tcccgcgcaa gcccgtc 357

<210> 42028
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-H6

<400> 42028

tttgagagg aaggatgtta acttgtatct aattaaagta gaaggcaagg ttggtgggaa 60
gcgggaggac actgaacttg tatatggaat tattgttgac aaagatatga gccatccaca 120
aatgcaaag agaattgagg atgctaagat tgccatcttg acatgccca 169

<210> 42029
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-E6

<400> 42029

ctgggttggt ggtcctgctt cgagatcaag tgcgataagc ctgtggagtg ctccggcaag 60

cccgtggtgg tgcacatcac ggacatgaac tatgagccta tcgcgggcgta ccacttcgat 120
 ttagcaggca cggcgttcgg cgccatggcc aagaagggcg aggaggagaa gctgcgcaag 180
 gcgggcatca tcgacatgca gttccgaagg gttaagtga agtacgactc caaggtcacc 240
 ttccaccttg aaaaggggtg cggccccaac tacctggcgc tgctgggtcaa gtacgtcgat 300
 ggcgacggtg acattgtggc agtggacgtc aaggagaagg gctctgacac gtacgagccc 360
 ctaaagcact cctggggcgc catctggagg aaggacagcg acaaaccgct ta 412

<210> 42030
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-E7

<400> 42030

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 ttacttccag aacacacagg gtcttatctt tgttgtggat agcaatgacc gtgaccgtgt 120
 tgttgaagcc agagatgagc tgcacaggat gctgaacgag gatgagctac gtgatgctgt 180
 gctgcttgtt ttccccaaca agcaagatct tcctaatagcc atgaatgctg ctgagatcac 240
 tgacaagctt ggattacact ccctgcggca gcgacactgg tacatccaga gcacttgtgc 300
 cacaactggc gaggggtctgt acgagggcct ggactggctg tccagcaaca ttgcgagcaa 360
 ggcttgaata tcaaatgcga actgactaag agctccggat gtatcatgga aacttaggac 420
 agaatc 426

<210> 42031
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-E8

<400> 42031

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 gtgagaaggc aaagtcaaag gacaacgatg caaaagcgtc cgggcccggg gggtccttcg 120
 acatcaccaa gttggggcgc tccggcaatg gcaagacgga tagcacgaag gctgtgcagg 180

aggcgtgggc atcagcgtgc ggcggcaccg ggaagcagac gacccatc cccaagggcg 240
 acttcctcgt cggaccactc aacttcacag gcccatgcaa gggcgacgtg accatccagg 300
 tgaatggcaa tctgctggcg accacggacc taagccagta caaggatcat ggtaattgga 360
 tcgagattct acgcgtggac aaccttgtca tcaccggcaa gggaaagctc gacgggc 417

<210> 42032
 <211> 425
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-012-Q1-K1-F1

<400> 42032

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 agcactgggtg gggcgccatc tggaggaagg acagcgacaa accgcttaag ggacccctca 120
 ccgtccgcct cactaccgag ggaggcacca agtccgtcta cgacgatgtc atccctgcca 180
 actggaaggc caacaccgcc tacaccgcca aataattaac tttagtgtg acaatacttt 240
 aagccgacct atgctagcta tactagattg gggtggatcc caagcaatgc attacacatg 300
 catgcattgg accgtgatat ctatttgcta ccactaccct attacgacag tgatgctggc 360
 gccacaatg atggtgtcat cctccttctn catcttcttc atctncatat atagctagag 420
 tgaga 425

<210> 42033
 <211> 465
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-012-Q1-K1-F10

<400> 42033

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 attcgatccg cctcaccgcc gccgcccgtc cgccggtcgg ccttgactgc tccgtcgcac 120
 gtggcggttc gcagcgcgga atctaccttg tgttgagaga tccggggaaa cccttggtcc 180
 cggtcgttcc ggctcgaatc ttctgcggac tggcaatgta agcgttctcc atcggagggc 240

gacgatctac ggggcgggtg ttggcggggg cgcggaatg gagcacgtgt tcggagggaa 300
 gtttaagctt gggaagaaga tcgggagcgg atctttcggc gagctctatc tcggcgtaa 360
 catacagagc ggcgaggagg tggctatcaa gttggaatct tgtaaataaa ggcacacctca 420
 gcttcattat gaggcgaaac tatacatgct tctncaaggg gaact 465

<210> 42034
 <211> 465
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-012-Q1-K1-F11

<400> 42034

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 gcttttcgac aggatctgca gcgccgggag gttcagcggg gacgaggcga ggtattttctt 120
 ccagcagctt atctgcgggtg tcagctactg ccacttcatg caaatttgtc accgggactt 180
 gaagctggag aacacgctgt tggatggcag cccggcgccg cgcctaaaga tctgcgactt 240
 tggctactct aagtcacgc tgctgcactc aaagcctaaa tccacggttg gaactccggc 300
 gtacattgct cgggaggtac tctctcgccg ggaatacgac ggcaagatgg cagacgtttg 360
 gtcttgtgga gtgactcttt acgtgatgct ggntggtgca taccctnttg aggaccccg 420
 tgatcccaag aacttcagaa aaacgatggg gagaatagt tcaat 465

<210> 42035
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-F12

<400> 42035

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 ttacgtcggt ccatgggggc tctacaaggc tctgatttgg accaaggaga agttcaacag 180
 ccctgtgatg ctcatcggag agaacggaat tgaccagcct ggaaatgaga ccttgccggt 240

cgctctgtac gacaagttca ggatagacta cttcgagaag tacctgtacg agctccagtg 300
 cgccatacgc gacggtgcaa acgtcttcgg ctacttcgcg tggtoctgc tggacaactt 360
 cgagtggcgg cttcgcttca cctttcaagt ttgggatcgt gtacgtggac cggaacacgt 420
 tcgtccggta ccc 433

<210> 42036
 <211> 337
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-012-Q1-K1-F2

<400> 42036

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 acagtatata cgttgcaccc tgatgatata gaaacatgta cgtgcatcag tgtatggaat 180
 gcgagtggca aacacatgga atgtgcttgc ctaattattg tttatttctt tatttattat 240
 atgtctcttc tcggttggtt tttatttttc ttaatgcag taatataatt tgttataccc 300
 aatatagaca atgtgtgcta tgcgctttaa ttcnnaa 337

<210> 42037
 <211> 283
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-F3

<400> 42037

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 tttgtccgtg cgatttttga cagaccctgt gtgcttcggt ggatctaagt tttgtcagg 120
 tttttggagc acagggctgt tagatcacag gagacgtatg ctgatgtgta taaacagact 180
 cgtttttttc agttgggggtt ttctcctatc tgtggagaat gtaattaatg tccaacgcat 240
 gatgtcgtc gccacataat attttattgt atcttacttg cat 283

<210> 42038
 <211> 372

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-012-Q1-K1-F4

 <400> 42038

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 tgggtgctagc cctcgcgcta gtggcggcca ccgccccaca ggtagcggag gcaaagaaga 180
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 cgacgctgtg cgagggcaag aaggggacgg acctggctgt gtgcaaggag tcctgcgctc 300
 tctcccagca gtccaacctg gtgctgtacg gcaggatcca gtgcaagggc aagtgcaccg 360
 agcagaaagg ca 372

<210> 42039
 <211> 481
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-012-Q1-K1-F5

 <400> 42039

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 gcgcggcgag cagcaggtcg tgtccgggat gaactaccgc ctctacgtcg acgccgccga 180
 ccccgccggc cgcaccgtgc cctacgtcgc cgtcgtgtac gagcaggtct ggaccgcac 240
 ccgccagctc gcctccttca acccggtgcc ccgcgcccc tgaaaccata cggacacggg 300
 tgggccgaag cgaccagac gatgttctcc gtcaattacg tgtcgagcta atcttattat 360
 tggttctatt attataataa tgcttctccc tgttctatg gacctatagt agtataactag 420
 tatgttgcca gggagcgagt agaccgtgtg tttcgtatc gtgggactag aataagccat 480
 g 481

<210> 42040
 <211> 385
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-F7

<400> 42040

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agcagggagg ctgcgatagg aggcgcaggg aggggtgcgac ggaggcaaag agcaagcacc 120

tggggacttc aggtaagtag aaaaccaaca ctgaatttgt cggttctcta ttttgtgatt 180

gaccgattgg tttgttgatc tcagaaacca aaaattgttt caccgtcaag caccaatttt 240

tgggtaggta agtggttttg gatgattctc ctatgcatca atagcaacct tgtgcttggc 300

aaagtatttt gccctgataa tggtgtaggt ttagtgaaaa gaaatatact gacatatcca 360

ccgatccatc gatgcccaat ggaga 385

<210> 42041

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-F9

<400> 42041

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tggcacggca aaacaccttc gccggcgaga gcatggcgat ggcgtaccgt gtcctggagg 120

tcaccctggt gtcggcaaat gacctcaaga aagtgtcgct cttctcccg g actcgcatct 180

acgccgtggc ttccatctcc ggattcgacc tccgcatccc ttcccacagc acccaagcag 240

accacagcaa cggctgcaac ccctgctgga acgccgtggt acacttcccc atccccggctg 300

ccgctgacac ccgcggcctc gcactccacg tgagggtccg cgcccagcgt ctatacctgg 360

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<210> 42042

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-E4

<400> 42042

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 ttatatgcaa gcatgtgtca gatctgggag gttggacacg ttgacatcaa ttatacagaa 120
 atgcaagaca gctgataaga tcaaagtttt gtgtccacaa tgggcttggg gcattgacat 180
 atcagaagct gcatttgaag ctaacaatag caaattagct ctttttgcgc tggaatttct 240
 tgcaagatgg attgttcgtg gtgagaatgt taaacctcct gttcagctgt cagttaatga 300
 aggtcttgta atatcagctc tgagtgtgc tggcagaact tttagtactg acctcttgaa 360
 tgctgcttgg tcgctactac ggaagtcctt gcgccagaaa agggcaccca cccagagac 420
 atatcttgcc aagatctatg ctcac 445

<210> 42043
 <211> 351
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-012-Q1-K1-D1
 <400> 42043

gcgtcggcaa ctccgcttcg ccggccgggc cgtctatcgt ctaaaaacct ttcagggcac 60
 ggggctagct gaaggagagg gaacggaggg ggatggcgtc ccggcgacga gataagccgg 120
 ctcttcgatc cgccgcacgg gatgagatgc tgccnaccgc ggatacgggtg ccgcgacgaa 180
 caaataagct cgaaaggcca agttcatgac gctcgggaacc ccgccgccgg acgagctcac 240
 cttaacgcca caaagtgacg gccatcggac agatctacgg tcttttctaat gaggcaaagc 300
 cgggggaaga caacaggaac tacgtcgaga agatgaagaa cgagaacgct t 351

<210> 42044
 <211> 140
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-012-Q1-K1-D10
 <400> 42044

ggagaagcta ctttgaagct accactgcat catggcatgt gacttgttga ataattggtt 60
 gcaggagtag agtgccgccg ttataactta taaagcagag catgccgtgt tgatactgag 120
 ttttttgttg gcttgaccta 140

<210> 42045
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-D11

<400> 42045

atcacgacaa gatggcatgc acaaacaatg cgatgagagc cttgttcctc ctggtcctct 60
 tctgcatcgt gcatggtgag aaggaagagt caaagggcat cgatgcgaaa gcgtccgggc 120
 ctggtggggtc cttcgacatc accaagttgg gcgcctccgg caatggcaag acagacagca 180
 cgaaagctgt gcaggaagca tgggcatcgg cgtgcggcgg cactgggaag caaacaatcc 240
 tcatacccaa gggcgacttc cttgtcggac aactcaactt cacagggcct tgcaaggggc 300
 gacgtgacca 310

<210> 42046
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-D12

<400> 42046

tgacgagatc gcatttatca cggaatcagc ttccaactat tccaatctgt ccaaggtgca 60
 tgctgccgag aatgccaaagc ctcttgaaaa gattgagttt gagaaggtgt tacgcaagaa 120
 gtttgctcac caggatgagg agtatgattc ctccatcggc atcactcgag gggccccacc 180
 ggagctgaca tccccaaatc cagcccaata aacctctgtt tttgtttctg ttttctcttt 240
 gacgccttaa tcattttgta ttggacagcg ctggattttg aaccggggcca tagttccatg 300
 acttaagtgg cttatgttta cttttcctcc ccaataatct tgggtcgagc gatgttataa 360
 agctggccat gcact 375

<210> 42047
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-D3

<400> 42047

atcgagcgga ctgatgaatg gtgggagaac agagaaactc caccgccatg gcccggcgcc 60
gcgcctcctc tgggtgactg gtaccgctgc catgtgccgt gcagtgcgtt ggtgggatcc 120
tgtcgtcgtg gtgggaatcc agcgccctg ggtaattcgg gtgtgcgcc acatttgccc 180
tcggtgacca gctacaggat tccgccggac atctccagt caaatcatgt ggtcattccg 240
ggtggattga tgccggggga ccctgggatt gttcaccgga aaatctacac agcggcaaag 300
cgactctgag cggtgaccgg agtgattacg ccatcccatt tggtaagaag cttacc 356

<210> 42048

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-D4

<400> 42048

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actgttgctc ctatccgtgg tctgtttcac tccaatactg gatctgttgg tcctttgtgc 120
tcacctcgt ctgtaagggt ctcttcgcat tcaaaccctg agcaataccc caaccacaat 180
tcatacaatt ctcaagtacc aagcactgca agttcctcaa cgctgaatta tgggtcacia 240
tatggaggct ttgaaccatc cattaaccga tttcccaaga gacattgaac caacttggtg 300
ccccgatcca gttgagagca ttcttgata ctctggtgat gtccctgctg ggaataattt 360
gactgggacc acttctattg gagcttcaga tgatcttact 400

<210> 42049

<211> 357

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-012-Q1-K1-D5

<400> 42049

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ctcgaaggag aatttccatt cgaccccatc cacttctcac ctcaatctcg cgagaagcga 120

agccggagga ggaggggtgcg aggagatcgc gaggagccgg agccggagcc ggagccggag 180
gcctagtaga tgaagacgtt cgatccgtgg ccggtcttct tccgccggga gtggaagcgc 240
aattggccct tcttcacggg gttcgccatc accggcttca tcatcactaa gatgacggcc 300
aacttcaccg aggaggacct caagaactcc aagttcgtcc aggagcacia gaagcgc 357

<210> 42050
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-D6

<400> 42050

ctcttctcac cgcatacct ctccctccgg cgcgcgcgtc cgggtacagc gctagagtca 60
ctgaccagca tgcattgcgc gccggcgccg aatggcgccg gcgacgtgca gaagcctcag 120
cagcagccgc tgggtggcggg gccggccccc ccaccgccgg cggcgcccggt ggtgccgccc 180
cattgggtcg ccatgccgtt cgcgccgcct tccggggcca cggccatggt gatgcagccg 240
caccatatgg cgctccgcc gccgcagttc gcgcgcactc acttcgtgcc gttccacgcc 300
gtcgcgccgg caccgtcggg gccagcagcg gtcgcactgg gtttcccagc gccgcacag 360
ccccggcagg aggaagacaa gagcgtgtgg gtc 393

<210> 42051
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-D7

<400> 42051

atttgaggga aagattatcc gtgctccttc tggagtgatg catgggaaaa gctctccagt 60
tgattacgac gaggaattag gaaaggcctt attcaatggc ttgccaaacc cttttacagc 120
ggcgaggtag cacagcttag tcattgagaa agaaaccttc ccacatgatg ctttggaggc 180
taccgcatgg actgaagatg gactcatcat ggctgctcgc cacaagaagt acaaacacat 240
ccagggtgtc cagttccatc cggagagcat catcaccctt gaaggcaaga aaatcatcct 300
caactttgtc agattcattg aagagctgga gaagc 335

<210> 42052
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-012-Q1-K1-D8

 <400> 42052

 gtgaaccagc agcctccaat aaaagctctc atatccaaat aaaaccgaga gacctcaggc 60
 ctgaggcaag ccgaccgccg acgtaccacc ggcgcaaccc gagagaaaga tggagatgat 120
 caagaggatc ctcatcgccg cgctcctcgt agtcgccgtc tcggccaccg cagtgtctggc 180
 ctccaccgag gccgcgcgcg ccgggtgccc cagccgcctt cgagtcgtcg gcgttcgccg 240
 aagccccgcg tggcgccgtc ggcgcggcg ccggcaccgg caccgtc 287

<210> 42053
 <211> 465
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-012-Q1-K1-D9

 <400> 42053

 cccacgcgtc cgcccacgcg tccgcccgcg agcgctctct ttctctatcg actggcgacg 60
 actgcgccac cgccgccgct ctacgcgaga cgcccaggtc ttcgccaacg acgagcatcc 120
 gggttagaga ggaagaaatt gcaaccgaaa caatggcggc agattccggc gtcgcgagac 180
 aaccaagctt caccaaggtc gaccagctgc gccctggaac ccacggccac aacctcatcc 240
 tcaaggttgt tgactccaag atggtcgtcc agagaggccg cgaggaggagg ccccagggaa 300
 gacagatgag gattgcggag tgcttggttg gtgatgaaac cggcatcatt gtcttcactg 360
 caagaaacga tcaagtggat gtaattaggc ctggaacaac tgttgaactg aggaacgcaa 420
 agatcgacat gttcaagggt tcgatgcggc ttgcagtgga caagt 465

<210> 42054
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-012-Q1-K1-E11

<400> 42054

tgaagattcc actgaggtgc aaaaatatga gtccagcatt cgacgggaaa atgaagcatt 60

tgaatccttg atcagacaga agtccctgat gatgatacct gttgatcagg atggccggtg 120

cattggacca actgttgcaa atgaaccaga gcctccttta tgtcagaact caattacaag 180

aaaggcaggt ggtaaaaagg cgcccagaaa ggagatgcag gttattgtag acatgagaga 240

gttcatgagc agccttccga atgtattaca tcaaaaagggt atccgaatcg taccggtcac 300

ccttgaagtt ggtgactatg tgctctctcc tttgatctgt gttgaacgga aaagtatcgc 360

gga 363

<210> 42055

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-E2

<400> 42055

atcaatattt ggatatagat taaatatctc aaacgaaaaa gtcaagaatt caaaatctgt 60

tgtggtgagc agagaaatgc acaaccgggg gaccactaac atatttacat ttgctgctga 120

tcgtaattac gagtacaaa caaaactgag aacaccagga acacagaaca acagactgaa 180

accagcaaat cagcgcggca agcgaccgca ccgcaccgca cgcacgttcg atcgatcagc 240

caacaacaac aacgccacct aaatcgagga acgcacgttc gatcgatcag actcaccgccg 300

cgatcggtt cacctcacgc tgtcccgcca atcgccgccg gggcggggct tccggctccg 360

cagcgcttg atctttcctg cgatgagcct ccccatcga ggccggcgc 409

<210> 42056

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-012-Q1-K1-C9

<400> 42056

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acgcagcgcg tcgctgccag tggcagcagg gacgacggcg ccagcggcgg catcgcggcg 120

gtctcgggtc ccaacaagaa gccgggaggc ggcaggaggc ggcgcggcct ccgttcgggtc 180
gccgccgggg tgtccatccc cgcggcgctc gtggctctgt ccttcttcgc cgcggggccac 240
tccacgccgc cgcgcagttc cgtcacggtg gcggtggtgc gggccgggtc ggtggcggtca 300
gaggcggtgc tggcgcttgc ggcgtggatg gcggtgggag agggcgggct gcacgcgcgt 360
ncggncgaca cgctgttgcc ctacgccgcg cgggttcgcg ccgggctcgc gtggggcg 417

<210> 42057
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-B2

<400> 42057

tcgacgaggc tgcactgaga gaagggctgc cgctccgcaa ggctgagcat gcattctact 60
tggactgggc tgtccactcc ttcagaatta ccaactgcga gatccaggac accaccaga 120
tccacacca catgtgctac tccaacttca acgacatcat cactcgatc atcgacatgg 180
acgcgagcgt gatcaccatt gagaactcgc ggtccgacga gaagctgctc tccgtgttcc 240
gcgagggcgt caagtacggc gcgggcatcg gccccggtgt ctacgacatc cactcccca 300
ggatcccgtc ggctgaggag atcgccgacc gcatcgacaa gatgctggc 349

<210> 42058
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-B3

<400> 42058

gctgctgaga ttgaggtagt tgatggctct aatgatgagg gtgaaatgtt cacctgcct 60
ggtaaactga gcgatcgctt cccacagcct tatgcaaagc agcaagcagc ccggtttgct 120
aatggtggtg cataccctcc ggaccttagt gtcatacaaa aagccaggca caatggtcag 180
aactatgttt tcgctcgttt taactggata tcatgatcca cctgctggtg atcagattcg 240
tgaggggtgtg cactacaat 259

<210> 42059
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-012-Q1-K1-B4

<400> 42059

ctccccaatc cgaccacccc catccattca ccaacccgaa atagaaggcc gtccccagcc 60
 acgagcctcc ggagttcctc cggcgatccc cgtccccttg tgtgcgcgct ccaggagggc 120
 cttctgcctc cagcttgcag agcccaccta attgctgcga gatggataga gggcagaacg 180
 ggaggggatga cgtcttcgga cgcagggatc cattttctgg gtttggttc ggccccaca 240
 ggagcttggt ttctggtctc cttgggggga gggatccatt tgacgatccg ttctttaccc 300
 atccgttcgg gggtcggatg atgggtgacc atgacatgtt tgtacctagt cctttttggg 360
 ccgatgggag ggccttttgg ngacatgagg aaacggtggt ttatcgagca agc 413

<210> 42060
 <211> 200
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-012-Q1-K1-B5

<400> 42060

ttcccgngcg accacgcgtc cgcagcttta atagctgatg taggangnna ctttgcttgt 60
 cgtgggggtg gcgaccttat cgggggggga ggatgtgatg atttcgtag cgctnnactt 120
 tacctaccg gcgcttggtg cggctgctaa cttaacagtg gtgaatgatg ttgtgtattt 180
 cactgaccat tgaggtgacc 200

<210> 42061
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-B6

<400> 42061

gcgggcagga ggtacaagg cctcaaacca gcgccgctca tctacgtcca aggcgtgttc 60

gaagacggcg cgctcaacac cgctcgacgtc cgcggaaaga tcgtcttctg cgaccgctcc 120
gaaaccgcca ccatgcgcgg cgagatggtc cgcgctgccg gcggcgtggg catcatcatg 180
ttcaacgacg cctccgaggg cgggtgtgacg aggttcctgg ggaacgtgtc catcgcgggc 240
gcgcgcgtca gcgaggccga cggcgccaag atcatgtcct acatcaactc cacggcgaac 300
cccaccgcca acctccactt caccggcggtt atgttgacc cttcctacca gccggccatc 360
gccgaatact cctcacgagg cccctgcac atgtcgaacc tcggcgtgat caagcccgac 420
a 421

<210> 42062
<211> 445
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-012-Q1-K1-B7
<400> 42062

catcgtgctg atggaaatcc aggacaagtt gtcggctgag tggaagccca tgaagctctc 60
tgggggcgcc atctggagga tggacactgc caaggcgctc aaggggccct tctccatccg 120
cctcaccagc gagtccggca agaaggatcat cgccaaagac gtcatcccgg cgaactggag 180
accgatgcc gtctacactt ccaacgtcca attctactag actttgaatt cccttcgatt 240
catccggcac agcgggctat ggaccttcag cagcaagcta attaagttgg cagcatgcac 300
cgtaaccct atatactact gagacttnca aattctagta tatgtaatcc ttttggtcgg 360
gttcatgac gaanttcaaa gagtggaaaa caagcaaaag gttaaataata catgccatctt 420
ttggagggca ttttttcgaa naaaa 445

<210> 42063
<211> 435
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-012-Q1-K1-B9
<400> 42063

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gtgcctcctc ctccgactca gcatggctgc cgtcgtcctg gctgccatcg ccacagtagc 120
gctcgcgagg gaagccgacg cgcgggcaact gccggcacag tggaccaccg cgaagaagta 180
caaggccacg atggacgcca agacgcggca ggctttcgac ggctgtgtgg gccgccgcta 240
cggcagagaa gcgggtcccag gcgggtggagg ccgtgtgtgca gcagcagctg aacatggacg 300
tgtccctgtc caaggcgacg tcttccgggg acgagaacaa ctacgtgagc gtggccgccc 360
cctacgagaa ggccgcgggc gccgtcatcg cggcgacgcc ggacaacaag ctccgcgcta 420
tggcgttcgc gttcg 435

<210> 42064
<211> 354
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-012-Q1-K1-C10
<400> 42064

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aggtgttttg aaccttggat ggagaggatg ttgtcaggca ctgtgagggt atctgtccaa 120
gccgtgctcg ggggcctttg tcaacttctt tggcttcggg nngccagagc ttagtaaatg 180
atacctcgta aggttctctc ttgtcattgg acgaagggga tgccaggagt tcatactttt 240
tatctaagag aagaccctta ttctgacatc gttgtacaac tcttatttgt attttaagtg 300
gagaacctag aacacttttg ttgatagata tanctgttaa atacttctgt cgat 354

<210> 42065
<211> 436
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-012-Q1-K1-C11
<400> 42065

cccacgcgtc cgcgacaaga tggcgtgcac aaacaatgcg atgagagcct tgttcctcct 60
ggtcctcttc tgcacgtgc atggtgagaa ggaagagtca aagggcacg atgcgaaagc 120
gtccgggcct ggtgggtcct tcgacatcac caagttgggc gcctccggca atggcaagac 180

agacagcacg aaggctgtgc aggaggcatg ggcacgga tgccggcgga ctgggaagca 240
gacaatcctc ataccctaaag gtgacttctc tgtcggacaa ctcaacttca caggcccttg 300
caagggcgac gtgaccatcc aggtggatgg caatctgctg gcgaccacgg acctaagcca 360
gtacaaggac catggtaant tggatcgaga ttctacgcgt ggataaacct gtcacacccg 420
gcaagggaaa ccttga 436

<210> 42066
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-C12

<400> 42066

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gcacctctgaa cccatcgcgt aggaaggggc aaaggagtcg gagctgatcc ggcagtcgct 120
ctctctcgga ttgagtacga tttgacgcgt ttgcccgcga gctttcttgc acccaagatg 180
agtgggcatg gtgacactgc gacctcagct aaagatggcg aaactgaagg agttgttgca 240
aaagagtga aaccacattt gtgctgactg tgggtgcatct gatcccaaat gggcatcagc 300
taatattggg gtattcattt gcgtaaaatg ttctggcgct catagaagtc tcggtacaca 360
tatttcaaag gttctgtcag tgacactgga caagtggctc gacagtgaag ttgacttcat 420
ga 422

<210> 42067
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-C2

<400> 42067

caacgtcgag gaggtcaccg aagcggcgcc ctcgaccccc gggaacaaca aggcctactg 60
tgatgaccac ggcacttgct accggaacca taaccaagac gtcgaacccc aaaagccctg 120
ttgcccgggc caaccatac accctctgct agaacaagat cacttgatgc tgatgcttat 180
cgatggcatg caagcatata tatac 205

<210> 42068
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-C3

<400> 42068

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cgggtggtagc cgtgggcgaa ccccatgcg cggagacggc cggagacaac aagaacctga 120
ccatgccggt ggctgagccc taggtgatca aggacctgtg cgggctcctg aggtgcgtct 180
tgctactacg gtgcggccgg ccgcttctgc tgcaggcaga cgtggacttc atggacgctg 240
tcggcgt 247

<210> 42069
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-C4

<400> 42069

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gcagggtgctg gcggcgatgg cactagcatt tctggtaggc ggtgcctggg gtggctcctcc 120
caagggtccc ccgggtaaga acatcacagc caactatggg agtgattggc tagatgccaa 180
ggcaacatgg tatggcaagc caacaggtgc cggcccggac gacaatggg gcggtatgtgg 240
gtacaaggac gtgaacaagg cccctttcaa cagcatgggc gcatgtggca acgtcccat 300
cttcaaggat ggtctaggtt gtggatcctg cttcgagatc aagtgcgaca agccagcgga 360
gtgctctggc agcccgtggg ggtgtacatt acagacatga ac 402

<210> 42070
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-C6

<400> 42070

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 tcttacagtc cattcactgt acgtctacat acaactcctc tctatgcaaa ctaatggagt 120
 attgtttgag tccagctggt attacgcttc aggaccgcct gaaggaaaat gaacttcggc 180
 tatctatggt aaaagaggag tgtaagcaac tggaggctga tacccaaggc attgagaaat 240
 ggttctcctc gtcgcctcat gaatcacgga gctgggtggca gcggttcacc tatggctcag 300
 agcaggcatc ctttctccag ccaaaggagc cctagaagcc cgagcggcgg cagccggagg 360
 agggcttgat gatgatcttg ctccgcctga tgcgttgatg 400

<210> 42071
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-C7

<400> 42071

caacaaaaca agtgcacaca aataaatacc tggctcgcta gattgccaaag agcaatggcc 60
 tgtaggtcat ccattctgct cgccatggtg gcgctggcta cgctattcgc ggtcggttca 120
 tgcaccaccc cgctcacctt ccaggtcggc aagggtcca agcctggcca cttggctcctc 180
 accccaacg ttgccaccat ctctgacgtg gagataaaag gagcacggtg gtgacgactt 240
 ctcttttacg ctcaaggagg gtccgactgg cacttgacg cttgacacca 290

<210> 42072
 <211> 480
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-012-Q1-K1-C8

<400> 42072

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 aactgatgta ccagatcaag gtctactgtg tgacttgctt tggtcagatc caggaaaaga 120
 tgctcaaggg tggggcatga atgatagagg ggtctcatat acctttggtg ctgacaaggt 180
 ttcagaattc ttgcaaaagc atgatncttg atcttatctg tcgtgctcac caggttgctg 240
 aggatgggta tgaatttttt gctgacagac agcttgctac catattctcg gcccacaatt 300

attgtggtga atttgataat gctggtgcaa tgatgagtgt cgatgaaact ttgatgtgct 360
cattccaaat tctgaaacct gctgagagaa aaaacaaatt tatggggtcc aacanaatgt 420
gatagtgaat gccattttgc tccagcagct ctagcctgtt aaggttctcc tgtggatgca 480

<210> 42073

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-B12

<400> 42073

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taatgaagag ccgcagcatg gcatcatcgg ccgcgctctt ggtgctagcc ctgcgctag 120
tggcggccac cgccccacag gtagcggagg caaagaagaa gagagcggcg gaaagcggcg 180
aggcggcgga ggcgaagaag atccaagacg acttctgctc gacgctgtgc gagggcaaaa 240
aaggggacgg acctggtcgt gtgcaaggag tcttgcgcgc tctcccagca gtccaacctg 300
gtgctgtacg gcaggatcca gtgcaagggc aagtgcaccg agcagaaggg catcacg 357

<210> 42074

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-H6

<400> 42074

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tgatttctct aaggaaggcg tgccacgaaa aggatcagag cctgaaagac aaggacgacg 120
cagttgagat gttggcaaag aaagtagata ctttgacaaa agctatggag tcagatgcca 180
agaaatcgag gcgcgagcta gctgctatgg agaaggagct ggcagctgtg cgcttgagga 240
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agctcccacc tggcaggact ttacctagga gcggctcggc gcgcaacatg tgaaggcatg 360
taggaattga ccgaatatgg ctttgatgat cttacttgg attaggactg gtgactggga 420
aggaacctct cattgtcctg gagaagatgg catcagcgga ag 462

<210> 42075
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-H7

<400> 42075

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 gcggtcatca aatcggccct gatgacgacg ggggagccta acgacaacct ccggaagccg 120
 atccaggacg tcaacggcag gccggcgaac ttggtcgcca ttggcgccgg ccacgtgaac 180
 ccgaagaagg ccatggaccc tggcctcgtg tacaacatga cggccatggg ctacgtgccg 240
 tacctgtgcg ggctcaacta cacggacgac aaggtgagca cgatcatcta cccggagccg 300
 ccggtgtcgt gcgccaagct gtcaaggctc gaacaggacg acctcaacta cccgtccatc 360

<210> 42076
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-H9

<400> 42076

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 ctgcgccgcg tcaccatata tcggaggctc cgcccccgcg cctcgaatcc ttgcgagag 120
 gtgctgttgt ttgccgtgat ttgagccggg tggaggtgtc tcgcttcttg atcttgagag 180
 gtgttcctag ttgattgttg ggagcgaaga aggcattgata ccttctgtga ggatctctcc 240
 tggctctgca gccttctctg gctccagcct acgcttaaaa ttacattcaa ttccatccat 300
 ctctagtctc aaaccctcca aatatgtggt ctctcgctg aaaccactct acctagcacc 360
 gctagatggt ccacacactt ctgagcttaa gtcttgagga caaccacttg ag 412

<210> 42077
 <211> 285
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-012-Q1-K1-A1

<400> 42077

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cctttatttt cagaaggctg cttcggcagg acaaagtact ttctttgacg ttntaaaata 120
tgttgctgcc cagtcacctt ctcagaaatc aacgcaacgc cttcatcagg aatcacagca 180
gccgccacaa caacagcaac cacaggtgca gcaggcgcaa ccacaaaaac aagcagcatc 240
tgttatgctc agagcatcat ctattgctgc tcggcaagca gcaat 285

<210> 42078

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-A10

<400> 42078

tgacactcaa ggaactgttg aagcggcaaa gtggttacac aaagtgggtca accgccccaa 60
tgtctacata aagatcccag ctactgcaga atgtgttcct tccatccagg aagttatcgc 120
taatggcatt agcgtcaacg tcacgcttat tttctcaatt gcgagatatg aggctgtgat 180
tgatgcttac ctcatggggc tagaggcttc tggcttgagt gacttatccc gagttactag 240
cgttgcatcc ttctttgtca gccgagtgga cacccttatt gacaaaatgc ttgacaagat 300
tggaacacct gaggcccttg ccttgagagg aaaggctgca gtagcgcagg ccaaactagc 360
aaatcggttc taccagaaga cattctctgg cccaagggtg gaggcgtt 408

<210> 42079

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-A11

<400> 42079

cctgcactta agaagcagct catcatctcc accgtcctga tgacttttgg tattgctcta 60
aggagctggt tggcccttcc agctaagttc accatctaca acttcggtac tcagaaggag 120
gtttccaact ggggtttgtt cttctgtgtt tcaattgggtc tgtgggctgg tttgattatt 180

ggttttgtca cagaatacta cactagcaat gcatacagtc ccgtgcaaga tgttgcggtat 240
 tcgtgcagaa ctggtgctgc cactaatgtc atttttggtc ttgctcttgg atacaagtcg 300
 gttatcatcc cgattttcgc tattgctgtt agcatctatg tcagtttctc cattgctgcg 360
 atgtacggca ttgcagttgc cgctcttggg atgctgagca caatcgcaac tggctcttgct 420
 attgatgctt atggtcccat cagt 444

<210> 42080
 <211> 188
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-A12

<400> 42080

tcatcatttt cttcttcccg aaaacttttc acattccgcg aaggagctat attaaccttg 60
 cggctaacca caccatctac aactttccta ctcataagga actttccaac tagtgttcct 120
 tctccctctt ttacttgttt tccgtactgc atttattatt gggtttgaca cacaatactc 180
 ctctaaca 188

<210> 42081
 <211> 274
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-012-Q1-K1-A2

<400> 42081

gggaaaagaa tcgtgggctg tgacctgtcg tcttcgtctc cggcagagca aagcggcggc 60
 gaggcgggag atatagagga gagacgagag cgggatgggg tacctgtgga gggcgcggt 120
 gtcttcattt gctgccggcg cggcgacngc ttcggcggcg gggttcttcc tctctacaa 180
 agaccacctg ctcgcccgcg ctgccatcat cagccaggtg gaggacatca aggaaacttc 240
 tgaaaagcat tatgcagccc taaataagag gata 274

<210> 42082
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-A4

<400> 42082

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tctgcatcgt gcatgggtgag aaagaagagt caaagggcat cgatgcgaaa gcgtccgggc 120
ctgggtgggtc cttcgacatc accaagttgg gcgcctccgg caatggcaag acagacagca 180
cgaaggctgt gcaggaggca tgggcatcgg cgtgcggcgg cactgggaag cagacaatcc 240
tcatacccaa gggtgacttc cttgtcggac aactcaactt cacaggccct tgcaagggcg 300
acgtgaccat ccaggtggat ggcaatctgc tggcgaccac ggacctaaagc cagtacaagg 360
ggaccatggt aatggatcga gattctacgt gtggat 396

<210> 42083

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-A5

<400> 42083

caccttcgac gaccccttc ttcttctccc ctccctcaat cacctgcagc gaaaaggaaa 60
aggggtgtgag accgtaacta agagctatct agcaataata catacatagc tataccctct 120
ttaggtcaag aggggtggagt tctccttatt cggaggaaga gctccatcct cattctacaa 180
gaccaaacca ataaatggcc tctagccac agtcctcgcc atcattctcc aagaagtcgc 240
cgccaccaca agaagcatca gctttggcgc caaatcatc ttcaaagtca ccctcgccac 300
caaagggtga atcaaattca tctcccagtc ccca 335

<210> 42084

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-A6

<400> 42084

ctccacttgg tgctgcgcct taggggaggc atgcagatct ttgtcaagac cttgactggc 60
aagacaatca cccttgaggt ggagtcctca gacaccattg acaatgtcaa ggcaaagatc 120

caggacaagg agggcatccc acctgaccag caacgtctca tctttgccgg caagcagttg 180
gaggatggga ggacccttgc tgactacaac atccagaagg agagcaccct ccacttggtg 240
ctgcgtctta ggggtggaat gcagatcttt gtgaaaaccc ttactggcaa gaccatcact 300
cttgaggtgg agtcttcaga taccattgac aatgtc 336

<210> 42085
<211> 164
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-012-Q1-K1-A7

<400> 42085

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agccagctcg cgaaaataat gaagagccgc agcatggcat catcgccgc gctcttggtg 120
ctagccctcg cgctagtggc ggccaccgcc ccacaggtag cgga 164

<210> 42086
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-A8

<400> 42086

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ggaaaaagaa aaatatgaac tccaagcaa atgtagactt cgtcctgata atgacatgtt 120
tcgggagcaa gagcaacata agattcattt tgatattaat gagtggcact gtggcttttg 180
caagaaagct ttccgagcag agaagttcat tgatcagcat ttgaaaatc gccacaagaa 240
tcttgtggat aatagtgaag gaagatgcat ggcagatcta tgcggcgcac tacattgtga 300
tctgatgatg cagttcaaaa aaccaaaaag ttaatg 336

<210> 42087
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-A9

<400> 42087

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ctggctgtcg gtcatgacat cgccatcaag agaaatagga aagtttttat aaaggtgata 120
ttgattttgt ggctggtttc atttggttga atgctcttca actttcttac actcatttac 180
attggtgtaa tgctttctct gttggttcca ccactctatg agaagtatca ggatcagggt 240
gatgaaaagg ttggcgt 257

<210> 42088

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-B1

<400> 42088

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aaccatcagc atcggcgcta agagcaggag gctagctgtg gcggccgtca gatgcgggtcc 120
cggcggcagc aggagccacc ggaggagcct tggggtcttg ctgtgtcgat cctcgtccac 180
ggccggagcc caaggagca cgaggatgga ggactataac accgccatga agcggatgat 240
gcgtaacccc tacgagtacc atcacgatct cggcatgaac tatgctgtca taagtgagag 300
cttga 305

<210> 42089

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-B10

<400> 42089

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accatagcta gccagcatgg cgcccagcag cagcatagca gtactgctgc tcctcgtcgt 120
cgccgtcgtc ctctccaacg tcccctctc gggcgccctg gcctcctcgt cgtcgtctct 180
gctgcaccag tcgtctccgt ctgagagtga gactgagacc gacagtagca gcggagaatc 240

ttcgtcgtcg tcgtcgtcgg aggaggagga ggccccggcga gaaggagaag gagaaggagc 300
aagagatgga gaaggccggt cgcggcggag aaggctgccc agcaggagct gctcaagtac 360

<210> 42090
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-012-Q1-K1-B11

<400> 42090

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agttcagtac ctctcattgg tcttgcttga gactattgtt aagaactgtg agaaggcctt 120
ctcagaagtt gcggccgaac gggttcttga tgagatggtc aggttgattg atgatcctca 180
gaccgtgggtg aataacagga acaaggccct tatgctgatt aaagcatggg gagagtccgg 240
tgatgaactc cgctatctgc cagtctatga gggaaaccgt acaagagctt gaaaatcaag 300
agtgcggttt tctggacgtg acaatgagag cttgggtccc atatttactc ccccacgatc 360
agttgctgaa gctgatgttg aaaccagctt gccccagcag gcgttcgaag acgtncatgt 420
tcatacatat actgctgaag aaacaaaaga aagcgttgat g 461

<210> 42091
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-H5

<400> 42091

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cttcgctggg tgttggctaa ggagaattgt agcataataa ttgggactat gtttcgacga 120
tttagaaggc aagggtgtca ttccaataaa cataaaaaat tttcactggt acctggcgat 180
tgtcaatgct aaaaaaatg aggtacatat actcgattct atgggaccac aaataacgga 240
tcgtcgagac ctttatacta caggtttctt gcggtctatg gatggtgaac tatatggaat 300
attggacagg gtcttctttg tctaataaca taactcagaa tgatataaca aagtttagat 360
ttaagctacc tgcaatattg tggaactcaa gattaacac aaagaaagga catcaagaga 420

<210> 42092
 <211> 466
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-011-Q1-K1-G2

<400> 42092

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 gttccagccc acaatgatgc acgcatctgc cgggtgattca caggagttat tattgcgctg 120
 cgatattgat gatgggttcgg gcggattgct gtctgtggac cgtgggtgggg gcgaggggcg 180
 aagccggcca ccagtgattc agtgaagaag aaaacaaacc aacacatttg tgtaatcaac 240
 tttgatgaaa cttcaattga ggcgcggcac aaaaatggtg aatatggcac ttagatgcat 300
 tgtttcgatg aatccagggt ttgtgaattt agaccgtttg agaaagtttt tgtagaataa 360
 agctcagcct gttcatttgc ttttaatctt tatcggctgt ttttacgttg ttttgcttct 420
 atcaattgta gcagctacaa taattcgaac aattgactnt aatatg 466

<210> 42093
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-G3

<400> 42093

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 gccatcggca gccagctgga gataagtctc gtcgggctgg agcacgcggg ctttctcact 120
 aacaatctcg acctcgccgg acagaccttc gtcgtcgaaa aagtccagggt gcgccaggcg 180
 ccggccttgc ttgaggatcat ccagagggcc gtctgccatc ccaagaggaa gtgggtggtc 240
 cgcataccca acaccttgaa gttgcgccac atcgccagga tttcgaatga gatcgagggtg 300
 gtcgttgccg tcgtgatccc tcaactgctc cgcgacaatg ttgacccac cggcgcgcga 360
 ctctacgcc gctacgcttg gtccatctgt catgcggcga ggaaggtgga tggcgccccc 420

aggattcctg gg

432

<210> 42094
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-G5

<400> 42094

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ctgcatttgg gaggacgcac cctgttgtgg cattcttgcc aaaatcaaaa gctggtaaaa 120
agaagagctt gcttggggat tcagaagagc ctgaagagca agcaccacct aagggaata 180
aagaatttga ggataaagat gaggggccga ctgaatattt atcttattgg aaaccaaattg 240
taacagtaaa tcttgttgaa gacttcacac ggtataccaa caataatgta ccggccatcg 300
ttgctccata tctgaatgtg gatccagcta caggcgatta ttatcctaca gtattcttca 360
acgagttttg gcttttgagg gataaattaa tagcgctcaa tgaga 405

<210> 42095
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-G6

<400> 42095

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ctccatgacg acgtccccgc cgcgcgcacg cctgctcgcc atggcgctgg cgctggcatt 180
cgctgcgtg ctgctcgtca ggtccgcgga cgcgcgcacg cccggcggtt ccgcgtacgg 240
gtgcaacccg gccacggaca ggacgtgcag gcccaggggc gtcgggggtg tgctgcccga 300
cggcggcatt gacctcgacg gcgacggcga cgaggacgag ctgccgcagt tcgacccaca 360
cttcacgata ctcgcccatg cccagtgagt gtg 393

<210> 42096
<211> 467
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-011-Q1-K1-G8

<400> 42096

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gccgccgtgt ttggctcgac gatgggatgt ccacctgctg ccacaaggaa cgtcgaaggc 120
ccttggaggc accacgacgc aaaccagca cgggagggag gtttcgggta tctcataacc 180
cataacttcc tcccgaccaa tggatggct cctggatcga accattcct tcagcaattc 240
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gtaacatacc taaggttcca tttccgngt tcgatgggga aaatcctaaa ctatggcaga 360
cacgatgtca agattatttc accatgtatt ctgttgacac tagtgtgtgg attaggattg 420
ctcgcatgca ttttacgng tctgcagcac gatggctcca atcggtg 467

<210> 42097

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-G9

<400> 42097

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ggggtccttc ttcgtcctct agcgaccgac caacgcgccg agcgaagatg tcgtggcaga 120
cgtacgtgga cgagcacctg atgtgcgaca tcgagggcca ccacctcacg tgggcgggtca 180
tcgttggaca cgacggcgcc acctgggctc agagcaccgg gttccccgag ttttaagccc 240
aggagatggc tgccatcatg aatgatttcg acgagccgtg gcacctcgcc ccgaccggcc 300
tgatcctggg aggcacaaaa tacatggtca tacaaggcga acctggagct gtcacccgtg 360
gcaagaaggg atccgggggc attactgtga agaatacagg gcagtcactc atcattggca 420
tctacgacga gcccatgact gccggcagtg caacctggtg tggaaaggct g 471

<210> 42098

<211> 351

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-011-Q1-K1-H1

<400> 42098

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tagcagcagc cggcgtgtga cgctggtact gtcggtctc cgctgctgc ttctggttgg 120
tgttgcgcat gcggtagtgg agttggtgcc tgctgatgat aatatcgccg tcgccgctgc 180
tggcacggcg gtggacgatg gcgagccgtc tcagcagtgc gcgaccccg tgagcgtgga 240
ngaagcgtgc cggggcggt tcgagacgca cgccggcggtg gcctacgacc actgcatggc 300
gtcgtttggc gccgacccgc gcagcaagga tgccggcaac aagaacatgc a 351

<210> 42099
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-H10

<400> 42099

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gtgtcaccgc tccccaacat caccaccaac tacaacggca cgtggctcac cgctagggcc 120
acctggtacg gtcagcccaa cggagccggc gtcctgaca acggcggtgc gtgcgggatc 180
aagaacgtga acctgccacc ctacagccgc atgactgcgt gcggcaacgt ccccatcttc 240
aaggacggca agggctgcgg ctcatgctac gaggtgagat gcaaggaaaa acctgagtgc 300
tcgggcaatt cagtcacggc gtacatcact gacatgaact acgagcctat cgcttcctac 360
cacttcgact tg 372

<210> 42100
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-H11

<400> 42100

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gatcgttgcc gccgtagtgc tggacaacaa tggcgctgac gcggtctcct gcactgccat 120
ccctagcgta acaataagcc tagaggagaa agaaaatatc aatgggggatg ttcccacgat 180
cacctcggcc gcaagcaacg aggaggaggc gttgttcagt gtcggagaat ccaccaagga 240
cgatggccat cgcttgacga tggaatgtc cactcccgtc tccttcagta gcccttcac 300
tcgcaagaag cgcggggcgt tcagcctctt cagggcgatg ttcctgtcct tcggtcggag 360
cgacgacagc atgaagaaga cagacgaaga caccacgagc cccaagaaga 410

<210> 42101
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-H12

<400> 42101

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cgagggggca cggcaacgga tgaaaagggg gatggcgctc cctgggtatga ggaaaatatt 120
tcgcatagaa tcacccgact gagtacaaga cattttgagt tttgacagag aaagctgctt 180
acatcaaaca tgttattagc tgaattctgt agatgaactc tttttttcga tggaaatagc 240
tacttcatgt t 251

<210> 42102
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-H2

<400> 42102

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gagcgggtcc tcctcgccgt tctactactc gttcgacgcc ggcggcatcc acttcgtcat 120
gcttgcgccc tacgccgact acagcagatc aggtgcgcag tacaagtggc tggaggcgga 180
cctggagaag gtggacaggt cgggtgacgcc atggctgac gcgggctggc acgcgcctg 240
gtacaccacc tacaaggctc actacagga agccgagtgc atgaggggtg agatggagga 300
gtcctcttac gcctacggtg tcgacgtcgt cttaccggc cagtgccacg cgtacgagcg 360

gtcgaaccgg gtgttcaact acacgtgga cgcgtgcggc cccgtgcaca tctcgggtggg 420
cgacggcggc aaccgcgaga agatggcgac ggcgcacgcg ga 462

<210> 42103
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-H3

<400> 42103

caccgacacg ctcaagaaca agttgaactt catgggcttc gtgatcccg actggcaggc 60
cgtggaccgc atcacgaacc cgtcgcacca gcactactac cactccatca aggagacgat 120
ccacgccggc atcgacatgg tgatgatccc ctacgactac cgggagttcg tcgccgacct 180
ggccaagcag gtgaagcagg ggcagatcaa gctggagcgc atcgacgacg ccgtcagccg 240
gatcctccgg gtcaagttcg ccatgggcct cttcgaggac ccgctcccg acccgcgctt 300
caccaaggag ctcggcgcgc atgagcaccg ggcgctggcg cgggaggccg ttcgcaagtc 360
gctcgtgctg ctcaagaaca gcaagaaggg gcaggcgaag ccgatgc 407

<210> 42104
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-H4

<400> 42104

cggacgcgtg gggcggcgcc ggcgtgctcg tgatctcaac ccaaggcgtg cctccgctcc 60
ggtcacccgt cactccacgc aaccatgtcg aggaggaaga ccagggagcc caaggaggag 120
aacgtcacc ttggaccac tgtccgtgaa ggagagtatg tctttggtgt cgctcacatc 180
tttgcatcct tcaatgacac cttcattcat atcactgatt tgtctgggag ggaaactctg 240
gttcggatca ccggtggcat gaaggtgaag gctgaccgtg acgagtcgtc accttacgct 300
gctatgcttg ctgctcaaga cgtcgcacag cgctgcaagg agcttggcat tactgcactg 360
cacattaagc ttcgcgccac cggaggcaac aagaccaaga cccctggacc tgggtgccag 420
tctgccctca aggcgctggc tcgttccgga atgaaaatcg gac 463

<210> 42105
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-G12

<400> 42105

gacccacgac gtacgaggac gcgtgggttc gttatcctcc tcgatcttat attcaggtca 60
 tagctaagca ggtctgtgca ggaggtcgtg gcagacatac gtcgatgagc acctgatgtg 120
 cgagatcgat ggccaccacc tgacctccgc tgccatagtc ggccacgaca gcgccgtttg 180
 ggcccagagc accgcattcc cacagttcaa gacagaggag atgaccaaca tcatgaacga 240
 cttcgactag cccgggttcc ttgccccgac cggcctcttt cttggcccca ccaagttcat 300
 ggtcatccaa tgcgagcccc gctgctgtca ttccgcggga agaagggatc tggatgcata 360
 a 361

<210> 42106
 <211> 465
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-011-Q1-K1-E8

<400> 42106

cccacgcgtc cggccgcctg ggtggagtgg agagctggag gcagatcgaa ataaagagca 60
 ccgtccgaac cgacgtcctc gccgacgtcg tctcaaactg gccctcacg agaccgtcct 120
 ccaaaatcct gaaacctata taattccgc tccatcacgc gccggacgcc tgatccgagt 180
 ccctgagtcc tgatagtaca cgacaggcac cgcagcagac cggccggact cggcgccaag 240
 cgcgatggat ttgtcatccg acgacgtgaa ggcggcgaac atgcggcctg cggttgctgc 300
 tgccgatggc acgtcgacac ttctgcgggg ttggcgggag ttcattgcga ggcgcgcgcc 360
 ggcgaggttc ctctattatg aggacggcaa gtggatcgat atcaccggag aggcggtgcc 420
 gcagctgcgc caggcgttcc aggagaggan ggcgatggcc gatgc 465

<210> 42107
 <211> 275

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-011-Q1-K1-E9

 <400> 42107

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 ggacctcgcc gaggaacggg cctcagtgtc cgccgccagc agcaaggtct ctgatgaggg 120
 ggcgggccgcg gctaccgctg agccctctgc aggtgccaaag accttcagca gcaacgatgc 180
 ccgcgacggc gccatggaca gcgtgcagga cgagccgcac cagcagtgtc acgatgacta 240
 tcaccccgag atcgtgccct ataagatcat acacg 275

<210> 42108
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-011-Q1-K1-F1

 <400> 42108

 catcgggtcaa agacaaaaga tgattgctgt gagcatcatg tggtcattag tgcattgtgca 60
 ggtgctggcg gcgatggcac tagcatttct ggtaggcggt gcctgggtgtg gtcctnccaa 120
 ggttcccccg ggtaagaaca tcacagccaa ctatggtagt gattggctag atgccaaggc 180
 aacatggtat ggcaagccaa catgtgccgg cccggacgac aatgggtggcg gatgtgggta 240
 caaggacgtg aacaaggccc ctttcaacag catggggcgca tgtggcaacg tccncatctt 300
 caaggatggt ctaggttgtg gatcctgctt cgagatcaag tgcgacaagc cagcggagtg 360
 ctctggcaag cccgtggtgg tgtacattac agacatgaac tacgagccca ttgcggcgta 420
 ccacttcgac ctatcatgca cggcggttcgg tgccat 456

<210> 42109
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-011-Q1-K1-F10

 <400> 42109

acacacacgt tcaaaccgcg agcacacacg ttctactttc acgacgactg cctgacacac 60
 gggccacgaa catgctggct cgctcctgcg ggcacctact ctcagccccc agctagagcc 120
 ctatgtctac gagggcgaag aatagaccac ccctgctggc atttttgcca gaggttctta 180
 ttctgccaaa ctaaagttag ttgatgatga tggcaagtgc ttcttgga tgagttacta 240
 ctttgagatt agaaaggact ggccaggaac tcaatgatgt gtggaccagc atggctgact 300
 cgtcggagta tgtagagct catagctaag ccaagcaca gatgtggact catcttcaag 360
 aatgattttc attcgtact tcattctaaa tcgcatttaa ttgtt 406

<210> 42110
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-F2

<400> 42110

cggactcgtg ggtcacaata agatggcgtg tatagacaat gcaatgagag ccttgttcct 60
 ttagcgctc ttctgtgtcg tgcattgtga gaaggcaaag tcaaaggaca acgatgcaaa 120
 agcgtccggg cccggtgggt ccttcgacat caccaagttg ggcgccttcg gcaatggcaa 180
 gacggatagc acgaaggctg tgcattgaggc gtgggcatca gcgtgcggcg gcaccgggta 240
 gcagacgatc ctcatcccca agggcgactt cctcgtcgga ccaactcaact tcacaggccc 300
 atgcaagggc gacgtgacca tccaggtgaa tggcaatctg ctggcgacca cggacctaa 360
 ccagtacaag gatcatggta attggatcga gattctacgc gtggacaacc ttgtcatcac 420
 cggctaggga aagctcga 438

<210> 42111
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-F3

<400> 42111

gatttgggtg cttatctgcg actcttgctt gtggtgattg ttctcttgct agtggcattg 60
 cagttggacc tctcatagct gcaacaccgg tgcagcagga agaaagaggc ataagtgaat 120

aacgatgcac gagacgaaca cgaggcgaag aggccacaaa agagacgatg tcagcgggaag 180
 aggcgaagag gccacgagac ccacgagacg ccgcagcggc agtagtctgc agcaaggagc 240
 gcttaagtac gggattgcag cgagggtgcga cagagaaaaga gagaaaacct tgggtttcct 300
 ggtcagcgag gtgcatttta ttttagaagt actataaatt taaattaggg ttggaaatgg 360
 atgtttggtg atccgaatta ttcgtattcg tactcactaa aactgcta atggatatcc 420
 gtatccgtat tcgatttcaa tat 443

<210> 42112
 <211> 470
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-011-Q1-K1-F5

<400> 42112

gagttggcgg cggtagttat cgcttccggc gatctcgcgc gtggagtccc gagtcgccaa 60
 ggctgccgaa ccctacggcc aggccaagat ttagtagtag ctactataaa tctgcagggt 120
 cgccagcact ttggcctctc aacgcacgcc ccccgcccga cgtttccgat ctcgtttctc 180
 tcttcccag tagcgaaatc ttcgtacatt ctgagatgca gatcttcgtg aagaccctcg 240
 ccggcaagag catcaccctg gaggtggaga gctcggacac ggtcgagAAC gtcaaggcca 300
 agatccagga caaggagggc atccctccgg accagcagcg cctcatcttc gccggcaagc 360
 agctggacga cggccgcac ttggccgact acaacatcca gaaggagtcc acgctccacc 420
 tcgtcctccg ncttcgtggt ggcngcggcc agtgatctgg tctgctgac 470

<210> 42113
 <211> 469
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-F7

<400> 42113

aactcactga atgccctgtc agaggatggc agcctcctga gcatgccgcc atgggttaat 60
 ccatggcttc tcttggccat gtccgtttct tttgggctgc atttcttgat cctctacgtg 120
 ctttctctgg ctcaagtgtt tgggattgtg cccctcagtt tgaacgaatg gctcttggtg 180

atagcagtgg ccttaccagt ggtgctgac gatgaggttc tcaaatttgt tgggcggtgc 240
 ctgacagctc gtgcccga aaacatcaggg aagaggaagg cagagtagat gctagtgatc 300
 atcgggtatta gaatctgtag cgccacggga atcgatattg gatgtgacac cccattgttt 360
 ttgagttgct aaggtctctc gatcctttct gagtcttttt agactgggaa tgacagtcca 420
 ggacaggcaa ggatattcta taggactcat aatcagatcg cattgaaca 469

<210> 42114
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-F8

<400> 42114

gaacaagaat cgtcgtgggt tcctcaatat tatttctaaa gaaaatctga aacaagggat 60
 accttgaat ccctcttgaa gatgtgaagc aatctaaaat ctatgtaaga agataaataa 120
 cactcaggag tcaagactag acaactagtc accccaaaga attagccttt tttagccgtg 180
 tacacctgga atctaattcca gattggcaac cacagcatcg gtaacttctt ggggtggtgct 240
 gctaccgccc agatcctttg ttctgtacgt gccttcagca acgacacgct tcaactgccgt 300
 ctcgagccgg tccgcaaattg acgggaactg caaatgcctc aacatcatag cagatgacag 360
 aagcagcgcg acagggtttg ctttcttctg ctccacaagg ttctcattcc caaca 415

<210> 42115
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-F9

<400> 42115

caacatgctg cgggctcgcc gccgcctgga cctcctgcag gtggtgctct tcgccgctgt 60
 gctgctcgtc gtcgtcgccg acgccggcgt gacgagccag taccggcgga agctggaggc 120
 gacggtggag atgccactgg acgccgacgt cttccgcgtc ccgccgggggt acaatgcccc 180
 gcagcaggtg cacatcacgc tgggtgacca ggagggcacg gcgatgatcg tgtcgtgggt 240
 gacggccaat gagctgggca gcagcaccgt catgtacagc gaggcgtcgc cggacccgga 300

gaagatggag ctccgggagg agggcaccca caccgctac gactacttca actacacctt 360
cg 362

<210> 42116
<211> 466
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-011-Q1-K1-G1

<400> 42116

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gccgtccttg cggcgctcgt cgccggcggg tcgtgcgggc ccccgagggt gccacccggc 120
cccaacatca ccaccaacta caacggcaag tggctcaccg ctagggccac ctggtacggt 180
cagcccaacg gtgccggcgc tcctgacaac ggcggtgctg gcgggatcaa gaacgtgaac 240
ctgccaccct acagcggcat gacggcgtgc ggcaacgtcc ccatcttcaa ggacggcaag 300
ggctgcggct catgctacga ggtgagatgc atggaaaaac ctgagtgtc gggcaatcca 360
gtcacggtgt acatcactga catgaactac gaggctatcg ctccctacca cttcgactng 420
agcgggcagg cccctcgctc cctggcaaag ccctggctca acgaca 466

<210> 42117
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-G10

<400> 42117

gcgccctgat atgataaccc ctggagttga tgctcaaggc caacctattg accctgagaa 60
gatgcaggag ctttttgagg acttctatga ggacatctat gaggagttgg ggaagtttgg 120
tgagattgag aatctgaatg tttgtgataa ctttctgac cacatgattg ggaatgtcta 180
tgtccagttc agggaggaag agcaagcagc cgcagcttac aatgctcttc aggggcgctt 240
ttactctggc cgccctataa ttgttgagta ttctctgtg accgacttcc gtgaagcaac 300
ctgtaggcag tttgaggaga acagctgcaa ccgtggtggc tactgttaatt tcatgcatgt 360

gaagcaaatt ggcagggatc tcaggaggaa gctgtatggg cgttctgctt ccatgaggta 420
ccatgggaga agccgaagcc gaagcccgtc accacaaagg ag 462

<210> 42118
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-G11

<400> 42118

ctccattgat gcactctttg gttgattttc ggtggagcat ttcgtcgaac acaggggagg 60
agggcccagt atgggtccaga aatcaaagta aaaaaagcc ctagtgtctt cgcacgcgc 120
tcccgcacac agaccgacca gccgcagccc gtggcgcacc tgctgcgcc cgccgcctcc 180
gtcatccact caacctgcc cctcggccac tgccgcgcgg cgcccgcccg cctgccgcac 240
cgccgaatc atccgacggc ccttaagctg aggcggtgtg gcctaagtag caacgcggcg 300
gtcgcgccgt gtctcgtcca ctttggtccc gacaggctgt ccacgggggc gcgaactgcc 360
cctcgcgggg tcggtcccga cgggccgtag cagctcacca gagaactagc ctctcgtcgg 420
gctttcccag gtctgcgcgt 440

<210> 42119
<211> 471
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-E7

<400> 42119

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gagaaccatg gcggcgggcg cagtttacgg cggcttcaaa gggaagcttg gcgtcgagga 120
tgcccccgag ctgcagctca accgcatccg catcacactc tcatccaaga acgtcaagaa 180
cttgagaaaa gtttgtgcgg atttggtaaa gggagccaag gacaagcatt tgagggttaa 240
gggacctgtc cggatcccta ctaaggttct ccacatcacc actcgcaagt ccccttgccg 300
tgaaggaaca aacacatggg atcggtttga gttccgcatt cacaagaggg tgattgacct 360
aatcagctcc cctgatgtgg tgaagcagat cacctccatc acaattgagc ccggtgttga 420

ggttgaggtg accattgccg acgtgtaagg acgtgaagtt cagcaatgtc a 471

<210> 42120
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-D12

<400> 42120

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tattacttgt attgcatgga gatactactt tggcagaaac ttgcagggag tttgctaaat 120
ggcatccatt ctgcttttagt gcaatgtgca aggcaaattg ttttatagaa ggaaaaagct 180
ccgatgggtc ctatgcaaag ggatatagat gtgattcaca tggatttcat tctatgtgta 240
tttgcccttt gtgtaaaagt tagttatctt aagacaagcg gggatatatt ctatgttcat 300
atccgtcatt taagggtgtg ttcaaataat tttatgggat aataattaac tagtttggtt 360
acttctagat atatgttata ctacttaaa 389

<210> 42121
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-011-Q1-K1-D2

<400> 42121

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ccgtccgccc cctcgtttcc cgcgccgtcg ctccgcccac cgcgcgccgg gcgctcgcca 120
cggcggaggt gcccgcggag gccgtcgagg actccacgtt cgtcgaggcc tggaaaaagg 180
tcgcccccaa catcgagccc ccagcgacgc ccctctccct catgcagccg cgcccccca 240
cgccagctac catccctacc aagctcaccg tcaacttcgt cctcccctac aagtccgaga 300
tcgccaacaa ggagggtgac atggtaattg taccagctac aactggtcag atgggtgttt 360
tgccaggcca tggtgccaca attgcagagc tcaagcctgg tggtctctca gtacatgaag 420
gaaacgatgt gagcaagtac tntgtgagca gtggg 455

<210> 42122
 <211> 434
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-011-Q1-K1-D4

<400> 42122

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ctgatctaatt gtaggggcag gaggaagccc ttccactgtt ccatctcttt cccggagtag 60
gtggtgggca cgacgaatgc ccctcgcccc caccagattc gtgcaactcg ggcctcatc 120
cgatcggcac cggccgcccc acgcgctaca gacgcgctgc cgcgtcgga ctctggagga 180
cacggcggcg gcttgggtgga ttgtgggagg gagggccttc tcttggattt ctgttgcga 240
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ggagctctat ccttgttcct acagcggctc acaggtgata gactacaggc cggctctctga 360
agacgaagac ggcgacgacg accagaacgg ggccgacgtg gcagtgtcgc tggacgccgt 420
tctnccagac gatc 434
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<210> 42123
 <211> 469
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-D5

<400> 42123

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tcgatgtcgc tcgtcgggct cgcgtgggc tccgaggagg aggaggacgg cggcggcaaa 120
aagaagcccc acgtcaacca cggcaagttt aaggcggagc cgtggacgga cgggcacgcg 180
acgtactacg gcgggcgcga cgggttaact gacaccacgg acggcggcgc gtgctgtac 240
aagggcgagc tggggaaaga ctacggcacc ctgacggcgg ccgtgggccc gtcgtgtac 300
accaacggca ccgggtgcgg cgcgtgctat gagctcaagg gccccagggg caccgtggtg 360
gtgacggcca ccaacgaggc cccgccgccg gtgagcgggc agaagggcga gcacttcgac 420
ctcaccatac cggcgttcct caagatcgcc gaggagaagg ccggcatcg 469
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<210> 42124

<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-D6

<400> 42124

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tggatctgct catcgggctc gccgtgagct ccgaggacga cgaggacggc ggatgcaaaa 120
agaagcccca cgtcaaccac cgcaagttta acgcggaacc gtggactgac ggtcacgcta 180
cgtactactg ctggcgcgac ggattaactg acaccactga cgtgcgcgcg tgcggctaca 240
aggcttagct ggtgaaagac tacgactccc tgacggcgac cgtgggcccc tagctgtaca 300
ccaacggcac ctgttgcagc gcgtgctatg agctcaaggt ccctaagggc accgaagtag 360
agacagtcac caa 373

<210> 42125
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-D8

<400> 42125

aaaatggata ctggcagaag aaatatatgg acttcgtagc acgcgtagga gtgatcgagt 60
ctgttttaat atgctatctc aggtaaaata ataatttatt ggcacaggtt tagccattca 120
ctaacttgta tcaattttgt gaactaaaga acttactatt acatgtggga gcc 173

<210> 42126
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-D9

<400> 42126

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atggcatcat cggccgcgct cttggtgcta gccctcgcg ctagtggcggc caccgcccc 120
caggtagcgg aggc aaagaa gaagagagcg gcggagagcg gcgaggcggc ggaggcgaag 180

aagatccagg acgacttctg ctcgacgctg tgcgagggca agaaggggac ggacctggtc 240
 gtgtgcaagg agtctctgccc tctctcccag cagtccaacc tgggtgctgta cggcaggatc 300
 cagtgcaagg gcaagtgcac cgagcagaat ggcacacgg cgccggccat gaaggctctgc 360
 caggaagagt gcgacaaggc ctacgtggt 389

<210> 42127
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-E1

<400> 42127

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 cttcggatac cattgacaat gtcaaggcca agatccagga caaggagggc atcccaccgg 120
 accagcagcg cctcatcttc gccggcaagc agctggagga tggccgcacc ctggcggact 180
 acaacatcca gaaggagagc acccttcacc tgggtgctccg cctcaagggt ggcatgcaga 240
 tttttgtgaa gacattgact ggcaagacca tcaccttga ggtggagagc tctgacacca 300
 ttgacaatgt gaaggccaag atccatgaca aggagggcat tccccagac cagcagcgtc 360
 tgatctttgc tggcaagcag ctggaggatg gtcgcaccct cgccggactac aacatccaga 420
 aggagagtac cct 433

<210> 42128
 <211> 426
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-011-Q1-K1-E10

<400> 42128

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 cggatcgcg aggcgttctt gtccatgatg tgctccatgc gcgccttcat cttcttcttc 120
 ttcgccgcct ggatcgtggt catggccatc ttcgtcctca cgctgctgcc ggagaccaag 180
 ggcgtgtcca tcgacgagat ggtggaccgg gtctggcgcc gccattggtt ctggaagagg 240
 tgcttcgccg acgactacga cgccggccagg gtctacgaca actgctagtg ctaggcacgc 300

gcgccgncgg ggattagttc tttgtcatt gtaattagaa atcggcctga ttaattgatt 360
 tcgttgctat gacatttaca atgatgtcgt ggcaatcaac aggccaaact atatagcata 420
 tgagaa 426

<210> 42129
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-E11

<400> 42129

caaacataca aggaccaact ttgccatgag agtcaacagt ttcttgctgc agctacgcac 60
 tcagcctact cttaataagt ttgttattaa gttcgggctg cgcaggaagc aactcgcga 120
 tgtcaacaga tggattcgt tctgctccgt gtcgcgagca agacacatca ctattaattt 180
 cactcctgga gtgaaagatc ttttcatggg tccagccaac agcaagtaca tttccccct 240
 gaaccttttc agtgggtccag aaggctcctc tacacatgtc agaactcttc atctgggcta 300
 tgtctgtctg gacacaacct tcgctgattt catgatcttg gcaatcttaa gaagctcact 360
 ctgcacaa 368

<210> 42130
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-E12

<400> 42130

ggtccggggt tccggcgacg acgtcacgcg ctctgcctgc gcttgagaa ctgttaaagc 60
 ttccatgtga ctgggcactg atatcagatc cggaattgag gctctatgcg cagctctatg 120
 cataggatga atatgcgttc ctcaaagatt atgctgaatc acacaagaga ctctgtgagc 180
 ttggcttcac tcattcgcag cacacgacca tccaaatcag atcttgcaac cgtcgtcgtg 240
 cttgcacaga ttgcctctgg cgtagcagtt gctgcaggca cagttatggc tggctacttg 300
 tacgaggctt ccaagatggt caagtacagg gcgacattct tctccacata gactctgctt 360
 tagtaagtat gaagatcgaa taacaggacc atatctgagg atcgaatagc gcatcatata 420

aatgag

426

<210> 42131

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-E2

<400> 42131

cggacgcgtg ggcggacgcg tgggccctgt cagaggacgg cagccttgtg agcatgccac 60
catgggttaa tccgtggctt cttctggcca tgtcggtttc tttcgggctg cttttcttga 120
tctctacgt gcctttcttc gctcaagtgt ttgggatcgt gccctcagt ttgaacgaat 180
ggctcttggg ggtggcagt gcttccccg ttgtgctgat cgacgaggtt ctcaaatttg 240
tggggcggtg cctgacacgc cgtgcccgga aacaatcagg gaagaggaag gcagagtaga 300
tgctagtgat catcgggtatt tagaatctgt agtgccacgg ggaatcgata ttcaatgtga 360
cacccccatt gcttttgagc tgctaagggc tctcgatcct ttcagagtgt ttacgttgg 420
gaatatgacc gtgcatgaca ggctaggata ctctatagaa ttg 463

<210> 42132

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-E4

<400> 42132

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tctgaaggct gtgtccaaga gcatcaaagc gatgtgctcg cagacagact acacggacgc 120
gtgcgagaag agcctcggca aggccgcgaa cgccagctcg tcgtcgccca aggacatcat 180
ccgcagcgcc gtggagggtga tcggcgacgc gatcggccag gcgttcgacc gcgcggacct 240
gatcctgagc aacgacccgc tcgtgaaggc cgccgtcgcc gactgcaagg aggtgttcgc 300
ggacgccaag gacgacctca acagcacgct catgggcgtc gacgacaagg acggcatcgc 360
caagcagggc taccagctgc gcatctggct cagcgccgtg atcgcgaaaca tggagacgtg 420
catcgacggg ttccccgatg aagagttca 449

<210> 42133
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-E5

<400> 42133

cagagcagca tttcgagtaa cacagttgag cagcagcatg ggatccctcg ctaataacat 60
 catggtcgtg ggcgcgctcc ttgctggcgt tgtcgtcggc gggtcgtgcg ggcccccgaa 120
 ggtgccgtcc ggcccccaaca tcaccaccaa ctacaacggc aagtgggtca ccgccagggc 180
 cacctggtac ggtcagccca acggtgccgg cgctcctgac aacggcggtg cgtgcgggat 240
 caagaacgtg aacctgccac cctacagcgg catgacggcg tgcggcaacg tccccatctt 300
 caaggacggc aagggtgtg gctcatgcta cgaggtgaga tgcattgaaa aacctgagtg 360
 ctctgggcaat cctgtcacgg tgttcattac agacatgaac tacgagccta tc 412

<210> 42134
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-E6

<400> 42134

cccacgcgtc cgcggacgcg tgggcggcca gcggcgccgg ccaaggcgcg atgggagcgg 60
 ctcccctggc ggcgtggtgg ggcagcccc gcgggtgtg ggtgctgccc cggcgtccca 120
 tggcgcgcta cctgagccc cgtccacggt ggcggcgcc cctagccgcg gccctggcgg 180
 caggggcatg gcggctccgg ccagtgccg gcgcatggcg cagccgctgc ccttgacgcg 240
 cgggcggcca ggccctccgt ggcgcgcggg cagcctgggc gctgccggcc ctagccacgg 300
 cccggcgccc cggccccggt ggctaccgt ggagcgccgg ctatggcccc gtccttggt 360
 cgccagcggg cggccccggc gcggtacagg cgcgcggccc ggtcacggat cgggtgcgaca 420
 cggtcgctct atggcg 436

<210> 42135
 <211> 471

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-B9

<400> 42135

gatcgtcggg gcagagagag acttcctcgc ctccatccca tcccgcgcgc gccgtctcta 60
cggctcgctaa taagcagccg catccaggga tggagatgaa gaagatcgcc tgcgccgtcc 120
tcacgcgcgc ctccggccacc gtggcgctgg ccgcggaggc gccggctccg tctcccacca 180
gcggctcctc cgcgggtcgca cccgccatcg tcggggccgc cgtggcctac ttcttcgcgt 240
actacattca ctgagccgcc ggacgaggag ccggagccgg aggggaagaga ccaaggtggg 300
gggagagact tggctgcgct gcgctgctct gctgctcccg cgcattcccg atgcgtgggc 360
gtgctctgat tgggcaaggc ggtggcagtg gcacaccttc gtcttctttt tgtttgtttt 420
tttttccttc ctctttctac ttgattttca tttaacgaat tgggtatcgt g 471

<210> 42136
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-C1

<400> 42136

ctcgcgggcg ggacggagac cacgtcgtcg gccgcggagt ggatcatgtc ggagctgatg 60
aggaacccgg aggcaatggc caaggcgcaa gccgaggtcc gccgagtgtc cgacggcaag 120
agcccgcaag accacgaagg gcaaattggac aagctcagct acacgaggat ggtggtgaag 180
gagggcctga ggctgcaccc ggtgttcctt ctcttcttct ctcgtctctg ccgggagacg 240
tgcgacgtcg gcggcttcga ggtggcccag ggcaccaagg tcacgtcaa cgcgtgggcg 300
ttggcgagga gccccgagca ttggaagcat ccggaggagt tctggccgga gagattcgcc 360
gacgacacta gcgtcgccgc ggcggcggac tacgtagggt ctcagtttga gtatatcccg 420
ttcgggagcg gcaggaggat gtgcccttga aacacctt 458

<210> 42137
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-C10

<400> 42137

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aacaaggaga aagagcggca gctggccaag gagaaggcgt acgcggcgga gaaggtcgtc 120
cagcaggaga tgctcaagta cgccaaggag aagggtctgg tgtccccgac caacggcacg 180
gggtggtaaa ggggcatcgc ccgggagttc gtggacgccc acaacgagct ccgcgcgcgc 240
tacggcgtgc cgcccatgaa gtgggacaac cagctggcgc ggcaggcgcg gcgctgggtcc 300
aacgccatgc gcaaggactg ccagatcctc cacagcggcc acgagtaagg cgagagcgtg 360
ttcaggagct acgacgactg gaacgccacc gtcagggaag ccgtcttctg gtggggcaag 420
gaggaggcca tctacgacaa ggacaaggag aagtgcaagt acggcaag 468

<210> 42138

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-C11

<400> 42138

gccgcccgcg ccgcatgaga gtcatgacga cgccgcggcg gcacgtgat ccgtcgccct 60
cgccctcttc ccgcgcgcag cttctctccc gcctccgctc cggggcctcc agtttctctg 120
cgcggcagta cagcacggag aaggaggcg ataacaccgg tccttcgaag ccgaaagggtg 180
gtggctcctc cgcgtaagg cacctcaggc caggattcgt ggatccttca tcatggaaac 240
atattgactc aagggtgtt ggcattaaac cgggtgctat acatacagat gcatgggcgg 300
tttt 304

<210> 42139

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-011-Q1-K1-C12

<400> 42139

ggcagtacca gtagcgcccg gccttcagct tactacaacg aagccgctga tcctectggg 60
 gtcaccagag cagatcttga acctgctcca agagacggtg gcagggaaag ccaggaaagg 120
 cgccgctcct tctcgtttct gtggccggtt ggcccgctga gttccagatc cagttcttac 180
 cagtacgaac agaattgtga tgagcctgca gtatacgatc caaaccagat agcatattct 240
 gagtggcact atgaccactg actgaaaccc tgcagcaagt gcaagctatc tgcaattcgt 300
 gccttcaacc ctcagctttg gagaggcatt catcagctgt aatggctgct tgccgtataa 360
 aaaaaggatg gttcttgctt gttatattgt gttcagtga tagccttgct ccgtatgtcc 420
 tncgtatata taaatccttt gcgtgtagta agcggg 456

<210> 42140
 <211> 259
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-C3

<400> 42140

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 agaagatcgg caccatggct ggaacgacga cgacggtgat gcagatgatg cacgtgcaac 120
 atgcggcagc attgctgatg tgcttggtg tggtgactgc gtacacgccg gtagtgatgat 180
 catctgcagt gactactgat ggatgatgca acggatggac catcgtatga cagatatact 240
 gtgccatcgc atgctacgg 259

<210> 42141
 <211> 471
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-011-Q1-K1-C4

<400> 42141

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 aaaggctgaa gaatatctcc ctccgaatat gggcttctc atcaagtttg ttaaggatga 120
 tgggtgagttg ctgtacccat gccctcttg gatacattca gatataatgg acgataacat 180
 tcttatcgag gggatcataa aactgagttc ttctggtgag agggaaagag tttatgactc 240

acatcgggac aaaataaatg caattcacat cattgatttc agtgatctgt ccattgggga 300
 tcctatatgt gacataattc cgctgcactt ggatattttc cggngtgata gtgaccttct 360
 caaggaattt ctacggagct atcaacttcc ccttctgagg ggggaatcaa ccaccgatgt 420
 ctacagatca gtgcgaaact cgaagttcat canggcata tategcgga t 471

<210> 42142
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-C5

<400> 42142

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 ataaataaag atgaagaaag tggcatcatc gtcagccgtt ctcttcgtgc tagccctgac 120
 gctagtttgt gccccgtga tagcagaggc aaagaagaag agagtcgccg ccgtcgtcgc 180
 cgaggagaag aaggtgcagg acaacttctg ctcgacgctg tgcgagggca ggaaggggat 240
 ggacctggcg gtgtgcaagg agtcctgcga cctctcacag cgctccaacc tgggtgctgta 300
 cggccggatc cagtgcagg gcaagtgcac cgagcagaag ggcatcaccg cgccgcatat 360
 gaaggtgtgc caagaggcgt gcgacaagga ctacgtggtc a 401

<210> 42143
 <211> 469
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-C6

<400> 42143

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 gcgatgaatc gacgatcagg agcggcatca agcaactgag ccgtgccctc caaatcttcc 120
 ggtttgtttg ggaggccgcg aatactgact gtcatgccgc caatcacaat ggtaaagatg 180
 ttgtgggcaa gaagaagaat gaagatgcaa aggggtgtgtt ggagttgcaa ggtcatctct 240
 ggagtttcgg tgttgaggag aagactctga catacagagg agacgtgttc catatgcac 300
 agattcagtt accatgaaat ctctttctc caacatatct ttgtgcaaaa tctagccata 360

tagacaaaac atataagagg tgcgatctga actgaaatgc tactcttttc actagcgctt 420
ctctgaatct gtgcaaaggc gatgcaactg catcctgggt gaaaaagac 469

<210> 42144
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-C7

<400> 42144

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attaaataaa tctacttttc tgtttcaggg taggaaatga tgtccgagag tgaagagcat 120
ggctcgctcc tagacaagat caacgacaag atcaacgaga agatccatga gtataagcac 180
tcgtcgtcgt cctcctctc ttcggactca gacgatgaca agaagcccaa gaagtctaag 240
aagaagaagc tttttggaag aaaacatcca ttgcatcatg tcctcggagg aggcaaagcc 300
gccgaccttg tgctgtggag gaacaaacag gcatctggga gcatcttggt aggggtgacc 360
gtgatctggt tactgttcga gggcatcggc taccaccttc ttaccttctt ttgccacgca 420
ctaattgtgt ttctcaccat ctggttcac tcggtccaat ctgcgtca 468

<210> 42145
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-C8

<400> 42145

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cttaaaccgc tggactcact tgatgtgatt ggcttccaag agggcacaga taccattttc 120
attagcatag atatggaggt cttcgcagtc atgctcagat cggagcaggt gaagaaggta 180
ggcaagacgg gctccaaata tgccatggca ccctatgtga gcttctacac tccagatctt 240
gcaaagggca gattgctatc accatgaaga tgcagtgatc catccattaa catggccgtg 300
gcactattga cttcttaagg agatgatgag ttaaagtgtt tttccagttt ggacgggtat 360
ggaaaaaag caagttacca tgttcattca gaaaagttaa gtttcttacc tgtgcagttt 420

aaggaactgt aagaacagga tatcatcgtc aaaatggcta gtc

463

<210> 42146
<211> 371
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-011-Q1-K1-C9

<400> 42146

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acgaacgacc aacactccta gctgtctcgc gtacggatcc atcgagctgt gtgtccttct 120
ggctgctgca cctgatgctc agagtagaca ctggctgctg ctccggaagg aaactgactc 180
ccccgaccgg cgatcatgct cctggatggc tcgctggccg cctcgaccga aacgctgacg 240
cagaatgacg actggggctc gtgggtgttg tacactatgt gccttatctt tacttctttc 300
tgtccgctat catccattac gctctgtgat gtagctagcc gtactgnta ttcattgacat 360
catgctagag a 371

<210> 42147
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-D1

<400> 42147

ataaccaaac cgactatggc tgacattttg acgggaagca tcgacggcgg gacacgtatg 60
atcgcgctgg cgctgcatgc cggccgtccg gcgacagacc tgagctgcca tggcctttgc 120
tgccaggcta gcctgggact ccacacgact actgcggact agcctaagtg gtgcacgggt 180
atccgttgct atctcgggtc taacatacag ttacaaggcg accactctgg acatcccacg 240
tagtcaacga tgctccatc gcatgagcgt atgaataggt ccatacgggt atgcttggac 300
actgcgagcg catggcgaat atggtcaacg acataatgca ct 342

<210> 42148
<211> 331
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-D10

<400> 42148

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taaagaagcc tttgaggtct tctgtaacaa aggtgtctct ggcagttcga gtgccgagtt 120

gttggtctacc ttctgcgaca atattctgaa gaaaggttgc agtgaaaagc tcagtgatga 180

agccatcgaa gatgcccttg agaaggtggt gagaatgctt gcatacatca gtgataaaga 240

cctgtttgcc gagttctata ggaagaagct tgcaagaaga ttactttttg acaaaagtgc 300

taatgatgag catgagagaa gtattctgac a 331

<210> 42149

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-B8

<400> 42149

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gtgaagggca tggagcctgg tgctggttca agctccgctg gctccttgag ggtgctggct 120

accatgttac atgcattgac ctagccggag gcggcgctga tcctactgac cccaacacaa 180

tccggtcggt ccagcagtac gacaagccac tcatagacct catttcaacc ttgccggagg 240

gggagaaggt gattctaate ggacatggtg ctggagggct gagtgtgatt catgcaatgc 300

acgaatttgt tgacagaate agccaagcat tttttgtggc agctacaatg ctaccatttg 360

gatttcaagc tgatgaagat aagaaagatg ggttaccaac tttgcctgag aacgagattg 420

agttgacact ttgtgctgga gcagatgat 449

<210> 42150

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-A4

<400> 42150

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 ccgccgtcgc tccatcccggt aacgcgacac catgagggag tgcatttcga tccacatcgg 120
 ccaggccggt atccagggtcg gaaacgcgtg ctgggagctg tactgtcttg agcatggcat 180
 tcaggctgac gggtcagatgc ccggtgacaa gaccattggg ggaggtgatg atgctttcaa 240
 caccttcttc agtgagactg gtgctgggaa gcacgtgcc cgtgctgttt ttgttgacct 300
 tgaaccact gtcacgatg aggtgagaac tggcacctac cgtcagctct ttcacctga 360
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 tggcaaggag a 431

<210> 42151
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-011-Q1-K1-A6

 <400> 42151

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 gctgagtaca ccgtccgtac cctccagagg accgtccctg ctgctgtgcc tgctgttgct 120
 ttctctcttg gtggacagag cgaggaggag gccaccgca acctcaatgc catgaacaag 180
 ctcagcacca agaagccgtg gtcctgtct ttctccttcg gccgtgccct ccaggcgagc 240
 accctcaagg cctgggctgg caagggtggag aacttgaga aggctagagc tgccttcctc 300
 gccaggtgca aggccaactc tgaggctacc ctcggcacct acaagggtga tgctgccgtc 360
 gacaccgaga gcctncacgt caaggactac aagtactgag ttgcttctct ttgcgtgcc 420
 gttttg 426

<210> 42152
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-011-Q1-K1-A7

 <400> 42152

actgaagata tgggtcctcg accttttcct gtcaaggagg ttcataaaat agcagtacta 60
gatattaggt tagctaatagc tgatcgatcat gctgggaata ttctagcgtg caaggagaga 120
gaaggtggca actacaagct gattccaatt gatcatgggt actgcttgcc agagaagttt 180
gaagattgta catttgagtg gctctactgg cccaagccc gtgagccatt caatgatgaa 240
accattgaat acatcaaata actcgatgct gaagaagaca tcaagcttct caagatccat 300
gggtgggagc tgccctncacg gtgtgctcgt gtccctgcgc tcagcacaat gcttttgaag 360
aaaggtgcat ctctgtggctt cacgcncat gatatanggc gcatactatg cagggaaact 420
gtgaataggg actctga 437

<210> 42153
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-011-Q1-K1-A8

<400> 42153

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gtcgatgcgg atggcaatgg gaccatcgac ttcccgaggt tctgaacct gatggcgagg 120
aagatgaagg acacggactc agaggaggag ctcaaggagg ccttccgcgt cttcgacaag 180
gaccagaacg gtttcatctc ggctgccgag ctccgccatg tcatgaccaa ccttggcgag 240
aagctgaccg acgaggaggt cgacgagatg atccgtgagg ccgacgtcga cggcgacggc 300
cagatcaact acgaggagtt cgtcaaggtt atgatggcca agtgaggagc ggtccccgtg 360
aaataagtat ctatggattg aagcgaatta tcaggcacac aagctgtact ttgtcatgtn 420
cctttgag 428

<210> 42154
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-A9

<400> 42154

cgcatctcgt caacctcacc gctaaccagg agtactgggc ggagcgcgcg gaggcggcgc 60

acgcgtacaa ccgcgcggcg taccagaccg accccgtggc cgtcgtgcag cgcttcaacg 120
 acggcgtgca cagggcgacg gcgacgcggt cgcggtccct ggcgcacagg gcgcggtgcc 180
 cctgcacggc gtccaacccc ttggaccact gctggagggtg gccggcacga ctgctcccgt 240
 gagctcaagt gactgtgcag gatccccatc gtcttacgtc acatgaccac cggcgggctg 300
 accggcatgt tcta 314

<210> 42155
 <211> 428
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-011-Q1-K1-B10

<400> 42155

cggacgcgtg ggcggacgcg tgggcgcggc cacatcgacg gcaagctccg ctacgggttc 60
 aacggcatct tccacagga caccgagacc cccctcaagc tcgccgagta cttcaacgtc 120
 accgacgggg tggtcagcta caaccagatg ggcgacgtgc cccccgtcgt taacggggcca 180
 ctccatgtca tccccaacgt catcaccgcc gagttccgga ccttcacga gatcgtcttc 240
 gagaaccccg agaagagcat agactccctc cacctcgacg gctacgcctt cttcggcgtc 300
 gggatggggc ctgngacgtg gtcgccggag atgaggaaga cgtacaacct actggacacg 360
 gtgagccggc acacgatcca ggtgtaccg tggtcatgga cggcgatcat gctgacattc 420
 gacaacgc 428

<210> 42156
 <211> 450
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-011-Q1-K1-B11

<400> 42156

cagaaaacct aaacgtgagg ttggcgaaaa gagaaaagaa ctagagcatc ccgtggagag 60
 aaggcggcgg cagcgctgt gggagatgtc aatcctgtgg gagaagagcg cgggttggcg 120
 atggctggtt cggcggacgc gtgactcgaa gcccttcttt ttcacgttcg cggcgctgtg 180

cggcgctcgtc cccggcgtaa tccggtacgg cgtgatgcag ctcaccgggt cccgcaacga 240
 gcagctcgag gcccaccttc gctccacggc ccgtcccag accacgatga tggggcaagt 300
 gaacagggag aggtctggcg agtttctcgg cgagctgcaa cggaaagagg acacgaacga 360
 caggtacgtg gccgcgctga ggggggagac cctgaccagg aagcgctacg agcgcatnca 420
 gcccgctgcct gccgncaacg cgcaagcgag 450

<210> 42157
 <211> 466
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-B4

<400> 42157

cggctgcact ttttcatggg ggggttcgcc ccgctgacgt cccgcgggtc gcagcagtac 60
 cgcgcgctga cgggtgccga gctgacgcag cagatgtggg atgccaaaga catgatgtgc 120
 gcggcggaacc cgcgccacgg gcggtacctg acagcgctcc ccatgttcgg gggcaagatg 180
 agcaccaagg aggtggacga gcagatgac aacgtgcaga acaagaactc ctctacttc 240
 gtggagtgga tccccaaaca cgtcaagtcc agcgtgtgcg acatcccggc cgtcgggctg 300
 cccatggcct ccaccttcgt gggcaactcc acctccatcc aggagatgtt ccgccgcgtg 360
 agcgagcagt tcacggccat gttccggcgc aaggctttct tgcactggta caccagcgag 420
 ggcattggacg agatggagtt cacagaggcc gagagcaaca tgaacg 466

<210> 42158
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-B5

<400> 42158

ttccctggtc ttccctctcg tcctataatt aaaaataata aattaaaaaa taatatttaa 60
 ctaaaaaaaaa aaaaaaaaaa tatagatggg taaataaata taaaaaaaaa atactaaaaa 120
 aacaaaaaaaa aaagggggcgt ccgttctagt ggctccatgc tttcttcccc tttcttgcaa 180
 cttcttatct cttctttggg gccacttaat ttcattttct tgtccttctt tttaaacgt 240

tgtgacctggt aatccccctgg tgttccccaa ctttttcgcc ttgcatcaact tcccttttttc 300
tctgtttgtc gtattttcctt atgtgacctcc ccttttcgcc ctctctaact tttgccccagc 360
ctgattggct tttgtgcccc tctttgttcc gctctttttt ccccttcggt tttg 414

<210> 42159
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-B6

<400> 42159

attaaacctg gcttttttat ttttgattat cgacggccta gcctgaagaa cagtagaact 60
cagactcgag cgctccaaag cgagccaccg ccgatctgct cctccctctt gaccctcttc 120
cgtgcgctgc gcaggcatga ggcgcctcct cgtcggcgcc ctcgctcttt gtatcgccgc 180
ggagggtggag tccaagccgc ctctcgactc tctgggcata ccccgcaag atgaggcgta 240
ctacataggc ggcgtgatca aatgcaggga cggatcgggc aggttttcca gggaccagct 300
caacgacgac ttctgcgact gccccgacgg caccgacgag cccgggacat ctgcatgccc 360
tgaggcgaaa ttctactgca agaatgcagg ccacactcca gtcacgatct tctcgtcacg 420
agtgaatgac ggcatttgtg attgctgtga tgggagtgat gaatat 466

<210> 42160
<211> 471
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-B7

<400> 42160

gcagacttca atcttttgaa ccaagcacca gatatggcag ctcgctctcca ttcaactcgt 60
gtattgggaa cttttggata tcatgcacct gagtatgcta tgactggcca gctgacacaa 120
aaaagcgatg tctacagctt tggcgtggtc cttttggaac ttttgactgg aaggaaacca 180
gtagatcaca caatgcctcg aggacaacaa agtttagtca catgggctac tccaagggtg 240
agtgaagaca aggtgaagca atgtgtagat ccaggttga agggagaata tctccaaag 300
ggagtcgcta agcttgctgc agtggcagca ctgtgtgtgc aatacgaagc agagttcagg 360

cccaacatga gcattgttgt gaaggcgctt tcgcctctcc ttcaacaaag acctgcacca 420
ggcaccgcat agccagcccc gcaacctgtg agctgaattc agtcacgtgt g 471

<210> 42161
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-H11

<400> 42161

tccagaaatc aaagtaaaaa aaagccctag tgtcttcgca tctcgctccc gcacacagac 60
cgaccagtcg cagcccggtgg cgcacctgcc tgcgcccgcac gcctacgtca tccactcaac 120
ctcgcccctc agccactgcc gcgcggcgcc cgtccatctg ccgcacccgc cgaattattc 180
tacggccctt aagctgaagc ggtgtggcct aagtagcagc gcggcggtcg tcccatgtct 240
cgttcacttt ggccccgaca ggctgtccac ggtagcgga actgccc 287

<210> 42162
<211> 402
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-010-Q1-K1-H12

<400> 42162

gtggtcttta actgtggagg agagccaggt agtattacct tgtttgaagt cactgcagat 60
agagtgggtg cctaaactga aagctctacc agaaggcctg aagcatgtag cgctgtgtga 120
acttcatgtg gaggggtgcac atagcctaac tgaaatcaag gacctgcaa aactatctga 180
cgagctccat ctcaaagata ataaggtgct acagaggatc tccaacctgc ccatgcttcg 240
ttccctcatt atcgatgact gctcaaagtt gaagcatgtg gcaggtcttg atgcgctgca 300
gcacctcaaa cttgtctttc ctccgtnac cgagacattt tatttcgaag agctagtaaa 360
ttntctggag cgttgccctc ccacggtggc tgaagctact ga 402

<210> 42163
<211> 428
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-010-Q1-K1-H3

<400> 42163

caacctgttc catttccagt aaggctctgtc caattgggta ctntgttttc tagtctgggt 60
tcagaaggat ctgttctaca tccgagagat gttgatatcc atgtccgcac aagtgggtcc 120
gtgcctggag ccagtactaa cccaagtgat tcagctgggtg cgcaagcgca tcaaaatgtg 180
aataggccag gagatgcttc gcatgcaaatt attggtgaag cgttttcagg ggttgccagg 240
ggcactcctt tttcagttga gtccggagtt agactattgc cacttagaac agtgggttgc 300
atgcctgctg gcatcagtcg tgcctcatca gggctgtcta gtggtgggct tgggtattatc 360
tatccatttc tcaactagggt tcgacaaagg gcaaacacta atggtaatatg tgaaaagaat 420
ggtcaatc 428

<210> 42164

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-H5

<400> 42164

caacctcttc tcccctgttt tctctcgttc gttctccgca ggagcgagga gggctcgcgg 60
caggggcagg gtctccggtg tttgtgttcc agaactctgta gcaaattggct gacggcgagg 120
acatccagcc ccttgtttgt gacaatggaa ctggcatggt caaggctggt tttgctggtg 180
acgatgcgcc aagggtctgtt ttcccaagca ttgttgacg ccacgctcac actggcgtga 240
tggttggcat ggcgcagaac gatgcgtatg ttggcgatga ggctcagtcc aagaggggta 300
tcctgacttt gaagtacccg atcgaacatg gcattgtcaa caactgggat gatatggaga 360
acatctggca ccacaccttc tataacgaac tccgtgttgc gcctgaagag caccctgtgc 420
tgctgaccga atccccactc aac 443

<210> 42165

<211> 463

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-010-Q1-K1-H7

<400> 42165

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tgatgaagca ctaactgggt tgaagacttc attcgcttc aaggttcccg atcacaagtc 120
tggaagcctt gatctgcaat atgcgcacaa tcgtttttca ttgaactcga ccattgggtt 180
gacatcagca cctttgggtg aactggctgc aactgtcggc acaagtgaac ttagcattgg 240
tgctgaggtt gggtttgaca gtacttcagc tgctgttact aagtacaact cangaattgg 300
atacaacaag tccgatttct cagcttcctt actactggct gataaagggg agactttgaa 360
ggcatcttac gttcatttgt tcaatccgac caatggagct acagttgcag ccgaggtaac 420
acacaagctg aagaccagag agaactatct cacagttggg agc 463

<210> 42166
<211> 500
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-H8

<400> 42166

accggaattg aaggggccga cccacgccac gcgtgcgcta gactgccgga ggagggggag 60
acggggaaac cgatctcaac gaggtcttta cctcgcaggt gcgccgcctt gccatggaga 120
tccggcaact tgctaattca cgaccaataa ctgttctcaa tggaggttct ggacaatcag 180
gagtatcagg cctgatagta cctgcagcaa ctgttgagc actaggttat gggttatatgt 240
ggtggaaagg gatctcgctt tcagacctaa tgtatgtcac caagcgcaac atggcaaagt 300
ctgtttcaag catgactaaa catttgagc aagtgcaaag ttctcttgct gctgctaaaa 360
ggcatttgac acagcgcatt gaaaagttgg acgataaatt ggatcagcag aaggctctat 420
ctggacaaat aagagatgat gtcactgatg cacgtctgaa gcttgagaat attgggttcag 480
aatcaagaa catcaaaaga 500

<210> 42167
<211> 445
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-A1

<400> 42167

gccattaacg tcaacgattc cgtcaccaag agcaagtttg acaacctgta tggttgccgc 60

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gtgggtctgcy gatacgggtga tgtcggcaag ggttgtgctg ctgccctcaa gcaggctggc 180

gcccgtgtca ttgtgaccga gatcgacccc atctgtgccc tccaggctct gatggagggc 240

cttcagggtcc ttcccttgga ggacgttgct tctgaagctg acatcttcgt gaccaccact 300

ggcaacaagg atatcatcat ggttgaccac atgaggaaga tgaagaacaa tgccattgtc 360

tgcaacattg gccactttga caatgaaatt gatatgctcg gccttgagac ctaccctggc 420

gtcaagcgca tcaccatcaa gcccc 445

<210> 42168

<211> 470

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-011-Q1-K1-A10

<400> 42168

acccggttca tcaaggagaa gagcagcacc acggccgtga tccgctacaa gggctccagc 60

gccccgccgc cggccaagct gccggagggc cccagcgggt gggcgtgggc catcaaccag 120

tgcaggctct tccgctggaa cctgacggcc agcgcggcgc ggcccaaccc gcaggggtcg 180

taccactacg gccagatcaa catcaccgc accatcaagc tcgccatggg ccgcggaag 240

gtcgacggca aggagaggtt cgccttcaac ggcgtgtcgc acgtggaccc ggaaaccctc 300

gtcaagctcg ccgagtactt caacgccagc gacggcgtgt tcaagtacaa cctcatcggt 360

gacgttgccg ccttcaacac ggnccccacc aagatggcac ccaacgtcat cagcgccgag 420

ttccgcacgt tcacgaggt ggtcttcgag aaccccgaga agagcatcga 470

<210> 42169

<211> 472

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-A11

<400> 42169

ctacgaggat atttgttgct cgaattccac agtcagtgga cgagtcgatg tttcgtaggc 60
atdddgaagc ttttgagaa attcttgatc tttacatgcc aaaggaacat ggttcaaagg 120
ggcatcgtgg aattgggttt atcacgtttc agagtgcaga gtctgtggac agcatcatgc 180
aagagtcaca tgagcttgat ggcacaacag tagttgttga tcgcgcgact ccgaaggagg 240
aagatgtaag ataccccccg agtagaccat ctcagggtgg ctatggtgca tataacgcat 300
acatttcagc tgctaccagg tatgcaactt tgggtgcacc aacactgtat gatcatcctg 360
gatcagccta tggaagaggg tactatggat cctctcaagc agtgggcaag aagatatttg 420
ttggtagact tccacaagaa gcaaacacgg atgacctaag acattacttt gg 472

<210> 42170

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-A12

<400> 42170

cccccaaac ccgaatccct ctggaatttc tatttaatgt tcctgttctt cccctccgat 60
ccgatgtccc caactgcgct cccgtcggcg atcaaacacc ggatcgcggc actcgccgcc 120
gttgagcgat ggatcgctcc tagactagat caagcgcctt gccgtcagca ccatgaggaa 180
gaagctggac acgccgtttc cgcctcctcg gattaaaaag atcatgcaaa cagatgaaga 240
cgtcggctag attgctcaag ctgtatctgt gctagcgtcc aaagcattgg agctat 296

<210> 42171

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-F8

<400> 42171

caatgttcca gtgatgccga ctccgctttt tgccaatgct ccagccgaga aaggtggcaa 60
aaacttcag attgatttca tgatgggccg tgtttcagct gctgggttca agactgcagc 120

tgcttccatt gaacgagtga agctgcttat tcagaatctc gatgagatga tctcatctcg 180
gatgggctct cagacccgca caggggtatt gctgatcgct tcaaacgtac catcaaggat 240
gaggggttct ctcccttggg gaggggtaac actgctaata ttattcggtta ctccctact 300
caggctttga actttgcgtt taaggactac ttcaagaggc tgttcaactt caaagaagga 360
cagggatggt tactggaagt ggtttgctgg caacctggcc tctggtggtg ctgctggtgc 420
ttcctctttg tttttgtgta ctccctggat tatg 454

<210> 42172
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-F9

<400> 42172

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tggtgcccc ggtgctgggt gtgcagtgcc gagcgtacac cgagaaggte gcgctctcgg 120
cgatcaagtc tggaggacga gctgctcaga acgcgtcggc tgcattgaaa gacgtcatgg 180
gctcctacac aaatgcaatc cggcgctcgtc tacgtcttga ccaacgcgtg aggttacgag 240
ccacctgaag aacaggttgg tagctggaat ctcaagtgt acgcaagttg tgcccttgat 300
cactatTTTT taccactca tgtgctaatt aatcataatg atctgcatat gtttaattttg 360
a 361

<210> 42173
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-G1

<400> 42173

cggacgcgtg ggtgaggagt gtactcatga tggatccact aggaccttgt cataaccaga 60
tgtgcaagct tcaatatcaa ctgatggaca aaagacatca gatttacact gtccaactaa 120
tcctgaatgt ttaccatagt atatcagttc aggttctgaa gctgccagta ggtgctggtg 180
accatttga tttgctttcc tagtcttctg ccgatccttc catgatctcc ttgaagtcca 240

ttctgggaat atgcttccaa tttcttcaac gccaatggac ccttccattc ttgcatcct 300
 ggagttcaca ggtaaaaggg aaaacaaagt tccatcagca acaaagagcc gagtacggtc 360
 accaagagaa tactttctgca acattgtacg acaggccgca aggcggtgct ttgcaacatc 420
 aacaccagtc agag 434

<210> 42174
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-G12

<400> 42174

cggacgcgtg ggttcgttat cctcctcgat cttaattaca ggtcatagct aagcaggtct 60
 gagaggatgt cgtggcagac atacgtcgat gagcacctga tgtgcgagat cgagggccac 120
 cacctgacct ccgctgccat agtcggccac gacggcgccg tttgggcccga gagcaccgca 180
 ttcccacagt tcaagacaga ggagatgacc aacatcatga aggacttcga cgagcccggg 240
 ttctttgccc cgaccggcct cttcctcggc cccaccaagt acatgggtcat ccaaggcgag 300
 cccggcgctg tcatccgagg gaagaaggga tctggaggca taactgtgaa gaagacaggg 360
 caagcgatgg tg 372

<210> 42175
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-010-Q1-K1-G2

<400> 42175

gattgcggca gcaccgtcga ccacgagccc gtcgaaaggc tcttcgcct gccgttccaa 60
 ggtgcactgc cggcattgct caatctcccg tggcgcgga gtccaccgt gcgccaattg 120
 gtctnctctt tcgttggcag actgagtggc atccaatcct gaatcaatga ngggctggcg 180
 tttgctcgtg ttatcgctac atgttctttc atgcctgggt agtggcggtg cttctggctg 240
 aacaagctct tatgtgcgca cagagtttcc atctacagat atacctctag aaagtgaatg 300

gtttgctatt ccaaagggat acaatgctcc acagcaggtt catatcactc aaggtgatta 360
 tgatggaaag gcagttatag tatcttgggt acctccagaa aaacctgggc caagtgaagt 420
 atttatg 427

<210> 42176
 <211> 173
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-G3

<400> 42176

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 ggagggggcgc caagcggggg cgatgcacct gcaaggcgac aagtcgggtgt tctacaactt 120
 gccgttcgag gggtagcaag acacgctgga cgtgcacgcc aaacggcagt tct 173

<210> 42177
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-G4

<400> 42177

gattctgccc gtggaaactt catttatttg agcttgaaga ggagctgaag actgacctc 60
 tgaccaagta tgtgctgtat caggatgaga ggagcaagag ttggcgagtc caagcagtcg 120
 cagttgctcc tgacaggttc gagagccgaa aggtctctgcc agagaagtgg aggggcatga 180
 gagacgacga actttcagca gaaaccggca tccctggctg tgtgtttgtc cacatgagtg 240
 gcttcattgg gggcaacaag acctacgagg gagcattgga aatggcgaga gctgctctga 300
 aattctgatt caaccaaagc atatttatta cccatgttac cattatatca gtaagcacat 360
 taagaacaca agatgcagtt gcgctttctt caatgttatc gtggactcca gccgtgggta 420
 actgggactg attcttgac tgatcttct 449

<210> 42178
 <211> 465
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-G5

<400> 42178

eggacgcgtg ggcggaacgc tgggcccgtg cgaagtggcc atggttgccg cagttgaaac 60
acttcctgat cgacgacttt ttcttttgtc gagccttcca ctcggcctcc gtgagaagga 120
gctggttgtc gcgcggttcg ccgccagtac gagtgcgccg ccgggaacgc tcgtcgaacg 180
ccttcagtct gccgagcgcc tctcgaacg ccacgtcttc gacatcgag aactgctcga 240
tgcccgcgac ggcggaaga gccgatctgg aacgatgtcg aggagcttct tcaccatggc 300
agcgtcgtcg agcgtcacgc caagcccgcc gtaacgcgcc gtcataaccg tgattttgtc 360
ggcgtagtcg tccaatgcct cccgctctc catttacagc ttgtagaact cccccttgag 420
cgtggtgagg cgcgtcgtct tgaccgatt cgccccgaca aaacg 465

<210> 42179

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-G6

<400> 42179

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agggactggt caaggactgc gacatgtgca gagcgtgaca ctctggctca tgcataatca 120
cctacaactg cgccaatgtg tgcccaggac aaggcctctt ggccggaacg ctcagcaaac 180
gactgcgtcg ttgcatgcgc atcttgcaac gctaaacaat gaacatcgat aactcgtatg 240
catccacaac ctattcaaga tcacatctat tacgacgtcc atatgcatga cgaccatcac 300
atatgtactg atcaactgcga tgtgtattct gatgactgcc atcgttctgg tgaatgtgtg 360
ctcaaggctc atcaatgcct tcatgtacta catttacagc tgaataacct actacttaag 420
cttgccgaca tgcatagaatt atacccta atgactcaac 459

<210> 42180

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-G7

<400> 42180

gcctaccata aaaagagaat ctttcaaaga tggcgtccaa gaagatggtc ctgcccgtgg 60

cggcgactgc tgctagtcac gctcgactg caggtcgccc ctctgcat cgccatggac 120

tgcaaggccg ggtgtgccga gatcaagaac tccccactcg gcataagcat cgaggagtgt 180

ctgaagaggt gcgaggggat cgccactgag cagggaccta gggaccctta caaggataac 240

aaacttgata tcccataaac acttatgact tgctgatata tttgtgccta tccaatcatt 300

tgtgatagat caatgcatct ttgtgttaaa aatagataga tcaatacatc tgtatatatg 360

ctcactccgt tcttttttat ttgtcggcgt ttagttcaga aatgaactag cggacgacaa 420

atattagaga acggaggtag tactatgcaa gcctacccat gaaa 464

<210> 42181

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-G8

<400> 42181

gcgttttttag ggggtggccta ctacaatcat gtcaagctgc aggcgctcaa ggctaaggag 60

gcccagaaga aagccgcaca ggctgatgag gaggttggat cgctcttgca ggagcgcgat 120

ggacacggtg atcataagag cgacaatcag gcttagactg tcagatctga tcttggcctt 180

cccatattgg ggatctgatg caaggtgcaa agactagagt ttggtctacg gttgctttca 240

aggaggtgga tgacggtttc ttgcacttct ttaactttgt gtctggagag aaaatcagag 300

gtattaacgt ttaggaaata tgcacctgct tgggtggagag ctttgctttg ttattttaga 360

cactttgttc tacagaaagg cagccatgcc ttactactat ctcaattgcc cattgcctag 420

atattttgt cctgctagta gattaggtac taaaaatgta ctgctgc 467

<210> 42182

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-010-Q1-K1-H1

<400> 42182

gcggtggagc ccggcggcgt ggtgcctgtg caaccgaaag agctcctccc gaggtgttc 60
gacgagtcct tccgcagcac cgcaacttcc tctttctcca agtactcogt cgcggaacagc 120
tccatggacc tgggcagctg cccgtttctcc gaggtcgagg tgggcggngg aagtctgcga 180
gaaggtgacg agtcggagaa ggagaggcca ctggttctgc gcaacaaggc gccgaggtgg 240
cacgagcagc tgcagtgtgt gtgcctcaac tttcgcgggc gcgtcacogt ggctctcggtc 300
aagaacttnc agctgatagc tcttgcaaag acgcagccgc agccgcaggc ctccggcccc 360
ccgccggcgn cgnccgncgn gtcgtcgtcg tcgtaccatg acccggtgat cctgcagttc 420
ggcaaggtcg ggagggacat gttcaccatg gactaccg 458

<210> 42183
<211> 455
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-010-Q1-K1-F7
<400> 42183

agcgaagccg gagaagggag gaaggagatc gctaccagcc ggagccggag gccgagagga 60
tgaagacgtt cgaccctgtg ccggtcttct tccgccggga gtggaagcgc aactggccct 120
tctcacggg gttcgccatc accggcttca tcatcaccaa gatgacggcc aatttcaccg 180
aggaggacct caagaactcc aagttcgtcc aggaacacaa gaagcgctga ccaaccgggt 240
ggagtcgtcc gaatcgctg cgcatgaaaa attagccctc tttttcttgt cttttttttt 300
tatctagatg cgtgcactct attgtaataa tgtaataaga ggcaattgga ttgatccaac 360
agcaaccggc ttctgatttt gatccgcttc gctgacatat gcctgcagca aacgaatatg 420
tgccttnttt tttcttgatg ttggattgca tctaa 455

<210> 42184
<211> 464
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-010-Q1-K1-E3
<400> 42184

cggacgcgtg ggtgaagcaa agctgaactg catgtcatga cagacattag tgggtgcaaga 60
 gtctgtcat cttaaagctg tactggacaa cccgcagttc cagcttgacc cattegctgc 120
 gatccatcag cacctgctgg caacgcagcc gcctgcagct gcaaagaagg gacgacgcag 180
 cgggaagcag gggaaggttt ccaaggacaa gaaaagccag gaggaagaag ggcacatcgt 240
 caatctctca ggcaatggat atctgattgt gttccttcag tactagtaac ttggtccgat 300
 gtcgactgcc cgtgttccac tagagggagc tcatcgaagt tcgatatcga tggttggcat 360
 agtttgagta ccagtagagg tagtactgta ccagccctcg cttttggcag cctgttgatt 420
 gatgtttgca gaatcgggtgc catcaacatt tgggtgtact ttgg 464

<210> 42185
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-E4

<400> 42185

gtcgtggctc tcttcacgc tcggcggcac cttcacctgc gaggacgcct gcaaggacct 60
 gcccaagacc agcgacaagg acgacgtcgt caacttcagc ctgcacttcg agaagctgca 120
 gcgcgtcacg ctgcacctca tcaccgaggc gtccggcacc atgtccgcag gcacgcacct 180
 gccaccctcc aacgcgggag cgccctccta cggcgcggcg gcgccttcg ggggctccgc 240
 cgatgcccc gccgggcct ccgagggccc tgcgagcgcc agcggcccgct ctggtgacga 300
 cgcgccggcg tccggtgctg gtgccagcgc gtcggtgct gatg 344

<210> 42186
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-E5

<400> 42186

cgaataataa cctagctctg cacaccgtcc agccaccagt ggcagcagga gcaggggtcg 60
 gaacaagatg gtggtgacgg cgcccgagc gcgcggaggag gctgtgcggc ggtgggtgga 120
 cgccgcggga ggacgcctcg tcctcgacgg cgggctggcc acggagctcg aggccaacgg 180

cgccgacctc aacgacccgc tctggagcgc taagtgcctc ctctcctccc cgcacctcat 240
 ccgcaaggtc cacatggact atctggaagc tggcgcaaac attataatca cagcatcgta 300
 tcaggccact attcaagggc ttgaatcaaa gggtttttca aaagaacaga gtgaaaactt 360
 actaacaaaag agtgctcgaga ttgcactgga agctcgtgag atgttcttga aggaacatct 420
 ggagaagtcc actcctatac agcacccggc tctgg 455

<210> 42187
 <211> 462
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-E6

<400> 42187

cccactcgtg cgcttacaca gactgtgagt acatcacgga gatcgcggtt gcctgttgca 60
 aggcatgatc ataatcatga catcatattg agatgcatca aataaaatct aggatatatg 120
 gatggcaaac cagctgcagc atgtatcatt tacaaaatgtc tattgcactg acgtgctttt 180
 gaatcagagc gaactgctat ttttgatcac gagattgatg ccatacatga tgtcctaattg 240
 cagaacgaag ctactgatat attacctgat tgggcgtcca atacctctgc atcgctatgc 300
 ctgggtccata gaaatgtgag atcaaatgga tcattcacta ccgcgcttcg tcgttatgct 360
 ggagctctag ggaacatagc acaaacattg acgactactt caaagttaat aggccgcagt 420
 gatactatac cacatgttga tgcacgggtat ccagtcatac ta 462

<210> 42188
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-E7

<400> 42188

cccacgcgtc cgcccacgcg tccgcccacg cgtccgggcg gaccaggcta accaaccac 60
 tggccttcat aagctcggcg gccagttcca cctgcgctcg atcatctctg aaggtgtacg 120
 ggcccgtaac atatgcccac ctgtctcatc ttatgaaagg agatttgcca caaggaacta 180
 catgaccagc agcctttggg gcccttcaat gtctgttagc ggtggcatca atgtcccagt 240

gatgcagacc ccgctctgtg ctaatgctcc tgctgagaaa ggaggcaaga acttcatgat 300
 tgatttcatg atggggcggg tttcagctgc tgtttcaaag actgctgctg ctcccatcga 360
 gcgtgtgaag ctgcttattc agaaccaaga tgagatgatt aagtctggta ggctatcaga 420
 gccgtacaag ggtatgggtg actgcttcaa acgtaccat 459

<210> 42189

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-F10

<400> 42189

cacacacacg tacaaaccga gagcacacac cgtcccccg cgcgcgcgcg ccgcgacacg 60
 cgcgccatgg ccatgctggc togetccgcc gcgcacctct tcttcttctt tctctctctc 120
 tccaccgcgc ccgcctgtgc gaccatcccc gacgaagccc gcggcccccg aaacaacatc 180
 cacgaggcgt gcagcaagac gctgttcccc aagggtgtgc tgcacgcgct caaggacaac 240
 cccgagtgcc aggcgggggc ggtcacgcgc cgcggctgtg ccgagctgct cgtgtacgtg 300
 tcggccgacg tgggcatgac cgtggccgcg ttccgcgcacc acgagctcaa ctccatcaaa 360
 gacgacgtcc t 371

<210> 42190

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-F11

<400> 42190

caacctcttc tcccctgttt cctctcgtgc gttctccgca ggagcgagga gggctcgcgg 60
 cagcggcagg gtctccggtg tttttgttcc agaactgtga gcacatggct gacggcgagg 120
 acatccagcc ccttgtttgt gacaatggaa ctggcatggt caaggctggt tttgctggtg 180
 acgatgcgcc aagggtgtt ttcccaagca ttgttgacg cccacgtcac actggcgtga 240
 tggttgcat ggggcagaag gatgcgtatg ttggcgatga ggctcagtcc aagaggggta 300
 tcttgacttt gaagtacccg atcgaacatg gcattgtcaa caactgggat gatatg 356

<210> 42191
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-F12

<400> 42191

ccttcacgt ctccaacaac atcgtgtcag gcctcaagta caccaacact gtctggaaaa 60
 cgggagtcga agtggagacc cagaagatga tgctggggac gttcagcccc cagctagagc 120
 cctatgtcta cgagggcgaa gaagagacca ccctgctgg catttttgcg agaggttctt 180
 attctgccaa actaaagttt gttgatgatg atggcaagtg cttactggag atgagttact 240
 actttgagat tagaaaggag tggccaggaa ctcaatgatg tgtggaccag catggctgac 300
 tcgtcggagt atgtagagc tcatagctaa gccaaagcaca agatgtggac tcatcttcaa 360
 gaatgatttt cattcgctac ttcattctta aatcgcatth aaatt 405

<210> 42192
 <211> 462
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-010-Q1-K1-F2

<400> 42192

cggacgcgtg ggcctgacc gtgactcggc catttcgcgc tataaagcga aaagggagac 60
 aagaagattt gcaggcaagt ccggtatgag tcgcgcaaag ttcgtgctga tggcaggctc 120
 aagatcaagg ggcgttttgc aaaggcaaac cagacatgaa cctaaatctg cagttctgca 180
 ctatcctaag catctttcct caagaaatat gctaagtatc ttccaacacg aagaagaaaa 240
 ctggtcaggg gcgatgataa tgcaaaaatg tgccagaatt ttgtttgcct tcagttcaat 300
 agctgataac catagctcca tatacagntg aattgaatga cgtgtgtata tattgctgtc 360
 atgtgactag tagctacatt gctttgagag atcaaaacct gtatatgcac ctacacatgt 420
 gattttgcc a tgacggacat aataatagaa ccaactgcgtt tg 462

<210> 42193
 <211> 153

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-010-Q1-K1-F3

 <400> 42193

 aggtgaacca gcagcctaca ataaaagcca gcttatttgc tttaaagcga gagacctcag 60
 acgtgaggcg agccgaccgc cgacgtacca ccgcgccaac gtgcgagaaa gatggagatg 120
 atcaagagga tctcatcgg cgtgctctc gta 153

<210> 42194
 <211> 472
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-010-Q1-K1-F4

 <400> 42194

gcgctatttg cttccttcac tgggtgaacc tgtgctagat gtcctccta gagatgaaat 60
 caaaatatgt ggtgaaggaa atactaaagg tgtttttggt aaagagaatg atgttgctaa 120
 atttacaata tgcaccatag aggatcccag aacattgaac aagacgttgt atctgagacc 180
 tccaggaaat gtcttctcaa tgaatgaatt ggctgacctc tgggagtcaa aactcaagaa 240
 atccctgaaa aggttatatg caacagaaga gcaacttctt aaagaaatcc atgatgctcc 300
 attntccttg aagatggatt taatctttat atattcagcg tttgttaagg gtgaccacac 360
 gtattttgaa attgacttgt caatggaagg aactcaactg tattcccatg taaattatac 420
 aacagtgaac gagtacttgg atactctagt ttaggatatt tgntcgggtt at 472

<210> 42195
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-010-Q1-K1-F5

 <400> 42195

gggagagata gtcctctcac aatttagcct tgacaactcc tggaacagag ctatgattgt 60
 taatggacct cgctctgtag aatctctaaa cgacaagttt gaagtattct atattgacta 120

tggcaaccaa gaggtgggtc cctacagtcg tctacgaccc gtggacccat ctgtttcctc 180
 ttctctgct cttgctcagt tatgcagcct tgctttcata aaagtgccca gtcttgagga 240
 tgactttggt caggaagcag cagagtatct aagtgaatgt ttgctcagta gctcaaagca 300
 atatcgggca atgattgaag aacgtgatgc ttctggggga aaatcaaagg gacaaggaac 360
 ccggaatggt ct 372

<210> 42196
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-F6

<400> 42196

aggaggcaaa gccgccgac ttgtgctgtg gaggaacaaa caggcatccg ggagcatctt 60
 ggcaggggtg actgtgatct ggctgctgtt tgagggcatc ggctaccacc tctcacctt 120
 cctctgccac gcactgattg tgtttctcac cgtctgggtc gtctgggtcta atgttgctc 180
 ctttgtcaac aggtctctc caaagtttcc agaggtgatt ctatctgaag cccaatgcct 240
 gaaggtagct catattgcaa ggaaagaaat caacgaggct ttctatacat tgcgcaatgt 300
 cgcttctgga aaagatttga aaacgtatct gatgtcaatt gcagtgtttt ggttcatttc 360
 gataattgga agctgttca gcttcttgac tgtgtcttac actattattt tgcagttttc 420
 ctgatggcat acactctgcc aatgttatat gaaaaatac 459

<210> 42197
 <211> 360
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-010-Q1-K1-E2

<400> 42197

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 ccggggcatc accctggcgt aaccaagct cgccttgctg gcgtgggcgc cttcatgggc 120
 ggccgggctg aaccctggct ctgtgaggat agcagtcgct cctgctgaat ttgacatc 180
 atcacgtca gcacggcat cgtcatcacc atcaccacag ctctgcactt ccccaaactg 240

gaccatcgat gtctcggacg tncgaactat caaggtgaac caacgtgcct ctctcggcga 300
 ccgcggggga acatgaagga gttctttctcc ttctacggcg agatcgagta cgtcgagatg 360

<210> 42198
 <211> 360
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-010-Q1-K1-D1

<400> 42198

gcagattaca gacttgccgt tctctctcta ttcaactttt ggtataaaag ctcgaccttg 60
 gtttaaccag ccaactatat tggctctcaa taaggatatg atcaaaggaa ttactatcc 120
 atgatattgg ggccaccaat cgtggctgct atcatctaca tagtacagat tggaggacct 180
 taacctggct atatatctct ggcgttntat gtttgtatta gctctactga tgatgacaat 240
 atacccatt gtgatagctc ctctgttcaa caagttcact cctcttcttg aaggagtcct 300
 canggaaaaa atagagaagc tggcagcttc cctcaagttt cctttgaaaa agcttttcgt 360

<210> 42199
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-D10

<400> 42199

ggcagtacca gcagcgcccg gccttttagct tactacaccg aagccgctga tctctcgggg 60
 gtgaccagag cagatcttga acctgctcca agagacggtg gcagggaaag ccaggaaagg 120
 cgccgctcct tctcgtttct gtggccggtt ggcccgctga gttccagatc cacttcttac 180
 cagtacgaac agaattgtga tgagcctgca gtatacgatc caaaccatat agcatattct 240
 gagtggcact atgaccactg actgaaacct tgcagcaagt gcacgctatc tgcaattcgt 300
 gccttcaacc ctacgctttg gagaggcatt catcatctgt catggctgct tggcgcagta 360
 aacaaggatg gttcttgctt gtgatactgg gcttactgca tatccgtgct ccgtatgt 418

<210> 42200

<211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-010-Q1-K1-D11

 <400> 42200

 gtcaaagggc atcgatgcga aagcgtccgg gcttgggtggg tccttcgaca tcaccaagtt 60
 gggcgccctcc ggcaatggca agacagacag cacgaaggct gtgcaggagg catgggcatc 120
 ggcgtgctggc ggcactggga agcagacaat cctcataccc aagggtgact tccttgtcgg 180
 acaactcaac ttcacaggcc cttgcaaggc cgacgtgacc atccagggtg atggcaatct 240
 gctggcgacc acggacctaa gccagtacaa ggaccatggt aattggatcg agattctacg 300
 tgtggataac ctgggcatca ccggcaaggc aaaccttgac gggc 344

<210> 42201
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-010-Q1-K1-D2

 <400> 42201

 gcagatgtac agaattgccg ttttctctct attctacttt tcctatagag gctcgacatg 60
 gtttgaacga gcaaactata tggctcttca ttagggatat gatcaaagga attttactat 120
 ccatgatatt ggggccacca atcgtggctg ctatcatcta catagtacag attggaggac 180
 cttacctggc tatatatctc tgagggttta tgtttgtatt atctctactg atgatgacaa 240
 tatacccat tgtgataact cctctgttca acaagttcac tcctctttct gaaagaatcc 300
 tcaggga aaa a 311

<210> 42202
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-010-Q1-K1-D3

 <400> 42202

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tgaagctcac aggtggcaat agatatacat gtgggttttt cacaggcttg taacaaatcg 120
gagtttgcac tggctgtgga gtgtaactga caagatgcag agctcttcaa atatcttggt 180
acttttttca gcanatagaa atttaacctt tgtgttttat ctgtttctgt ttgcttacag 240
agttcactga tgttgattaa cattgctagc atgccttaag ttttgaaatt ggttggttgg 300
tgtagtcttg gtattagttg gtggtagtag gttttgatac attttatttc ttccactct 360
ttagagaaag ttttgcattt gcaaaatctt ctcatcagt ggaagctcca agcaatatac 420
atatacanat tacacaaggt ccttnccatat gaa 453

<210> 42203
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-D4

<400> 42203

tttaaagaac tcctttataa aaaccagatg cttcaagccc ttagaatgcc taaaacgagg 60
taaaagaaga gaaaaacact tggctcatcag aagaccacat tgcgacatca gaggatattc 120
tcaataccaa tttgccatgc acaactatga cagaatgtgg gaaatatctt tacatgagag 180
gtcttcgcta gtccatacag taccctgtga tatggactgg catgcattac atgggacaag 240
cgatacacac aagtgttatg tcacgatgct cgtggcctaa gcaacctc 288

<210> 42204
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-D5

<400> 42204

ggcgatgctg gttgcgctgt ttgcggttgg tttgtgcacc acccgcgtca ccttccaggt 60
tggcaaggga tccaagcctg gccacctgat cctcaccccc aatgttgcaa ccatatctga 120
cgtggagatc aaagagcacg ggggcgatga cttctccttt acgctcaagg agggcccgac 180
cggcacctgg acgctcgaca ccaaggcccc gctcaagtac cccctttgca tccgctttgc 240
tgtcaag 247

<210> 42205
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-010-Q1-K1-D6

 <400> 42205

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 cggcgccatc cgagcgaaca agccaaccga ccccgcccc aaggcaatcc gccgcccgcg 120
 taccaccacc accgcaggag cgagatggag atgaagagga tcctcttcgc cgtcctcgtc 180
 gtcacgcgcg cctcgccac cgcagtgtg gctccaccg aggcgcgcgc cgcggggcgc 240
 ccaactgcct ccgagtcgtc cgcgcaggct cccgctggcg ctggcgctgg cgtgcgcgt 300
 ggcgcgcncg cctcggggccc ctccgccagc agcggcg 337

<210> 42206
 <211> 462
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-010-Q1-K1-D7

 <400> 42206

gaagaagatc gctgcgcgcg tcctcatcgc cgtctcggcc accgtggcgc tggcgcgga 60
 ggcgcgcggt ccgtctccca ccagcgggtc ctccgcggtc gcacccgcca tcgtcggggc 120
 cgccgtggcc tccttcttcg cgtactacat tctactgagc gccggacgag gagccggagc 180
 cggagggag agaccaaggt ggggggagag acttggtgctg gctgcgctgc tctgctgctc 240
 ccgcgcattc ccgatgcgtg ggcgtgctct gattgggcac ggcggtggca gtggcacacc 300
 ttctcttcc ttttgttgt tttttttcc ttctcttcc tacttgattt tcatttaacg 360
 aattggtatc gctgatgcac cagtttaatt tggcgccctg ttatttgctc tttccctcga 420
 gtgagggatc gacacctgta ccattgcttg ccatttgctc gg 462

<210> 42207
 <211> 470
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-010-Q1-K1-D8

<400> 42207

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ggcacgcgac caccggcggc ctccggcgga agatctacgt ggtgaccgac cccaccgacc 120
tcgacgtggt gaaccgcgcg cccggcacgc tgcgctgggg cgatcatccag cccggccccg 180
tgtggatcat ctccgcgcgg tccatgatca tccagctctc gcaggagctg ctcatgagca 240
gcgacaagac catcgacggg cgccggcggc aggtgcacat cgccaacggc gccgggatca 300
cgggtgcagct ggcgcaaaac gtcacatcc acaacctgca cgtgcacgac gtcaagcaca 360
ccatgggcgg cctcatgcgc gactccccca cgcacatcgg ctcccgccacc agggccgacg 420
gcgacggcat ctccctcttc tccgncacca acgtctggat cgaccacatc 470

<210> 42208

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-010-Q1-K1-E1

<400> 42208

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ggatgtcgtg gaaggcaagt ccatggcgtc cgccgacgcg cctgaggcgg gggctgacgc 180
gcccgtccc ggtcccgact ccgntcatc cncggactcg ccgtcggagg cgccctccag 240
cagcagctca tccgactagc cgcgcaaac gcagttcttg tcatgatcta tctagcacat 300
aaaaagatca tatgtctcgt ttgattctct ggaataacta atagtatata tgctgcgccc 360
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<210> 42209

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-E10

<400> 42209

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ttcgacgcct gcatcggggg catggccatc ttctgtactca cgctgctggc ggagaccaa 180
ggcgtgtcca tcaactagat ggtggaccgg gtctggcgcc gccattgggt cttgaagacg 240
tgcttcgccc acgactacta cgcggccagg gtctacgaca actgctagtg ctaggcacgc 300
gcgccgccgg ggattagttt ttttgtcatt ggaaatagaa aatcggcctg atttattgga 360
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tatg 424

<210> 42210

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-E11

<400> 42210

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catagaccta ctgtccaaag tgtgctaata cgatcagggt cctgagcgac agacatgact 180
agtaaacyca ctgctagagt gaaacatctt ttaatggatc cagccaacag cgagtacatc 240
ttccccctga accttttcag gggagcacia ggctacttta cacatgtcag aactcttcat 300
ctgggatatg actgtctgga cacaacctag actgaattca tgaactatgc aaatcttaag 360
aagctcactc tgcacaagat ttcttttttg ggagacctac agtgccctgat gctgccagaa 420
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<210> 42211

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-E12

<400> 42211

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tcattccacg cacaaaagct ttgcatattc ctttctaacg cgcaacgatg cacatgccga 180

ctcatcagat aaaacgcgca tctcgtgccc gtgaggagc tcgtcaaaaa tgcccgcagc 240

tgcgctcacc cgtgcgacct cttcagggga ctgcagtgc cataaacgcg ggtgggtctc 300

cggcagaagt ggcagcagtg ggcgcccgtt cctcgcgcag aggtccacc agtcgggagg 360

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-C9

<400> 42212

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cattgcgccg cctcgtcgc cgacgtctgg gccatcggct cactggactc agtggcttct 180

gatgagccct gcaacgcact cgccggaccg gccggcattc ttcttggtcc tagcgtaagc 240

ggctacaccg taacgctgcc gcccaatgac gactcgtctt ggcgctgttg ttagagtacg 300

gacctcaatg atctatcaag ctctcagctg taatctattg aagtctctga tgtagctgaa 360

cctactaatg aatcctgaca tcatgctaca 390

<210> 42213

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-B6

<400> 42213

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cagatgcata ataaaagggtg aaagctagca gaagaggtac ctaactctac cctactatag 120

agaaaaagtc agcacattgc aagcaataat aatggagacg acgacgaagc tccggtggag 180
 ccggccccgc tcttctctcc tcgtcgccgc ggcgttcttg gcgtccgccg ccgcgtcggg 240
 cgtcaacgtc ggccagttcg acgaccactt gcagaagcgg aaggagctcg ccgaggcgtc 300
 ggcgagggag gcgtacaggc ccgacccgta caacgtcacc aacag 345

<210> 42214
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-010-Q1-K1-B7
 <400> 42214

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 gggcaggtcc atggcgcccg ccgacgcgcc tgaggcggcg gctgacgcgc ccgctcccgg 180
 tcccgactcc gcctcatccc cggactcgcc gtcggaggcg cctccagca gcagctcatc 240
 cgactagccg cgcacaacgc agttcttgtc atgatctatc tagcaaataa aaagatcata 300
 tgtctcgttt gattctctgg aataactaat agtatatatg ctgcgcccgg atgatatata 360
 aatatgtgca tcaaatgcgt ggggcaaacg catggaatgt gcttgccctag ctagctaata 420
 ngttgtnttt ttttctttac ttttcttcat acctgtctc 459

<210> 42215
 <211> 461
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-010-Q1-K1-B8
 <400> 42215

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 tgtacaaggg tcttgtgccg aactcagtca aggtggtgcc ctcaattgcc attgcatttg 180
 tgacttacga ggttgtgaag gatgtgctag gagtagagat gaggatatca gactgaggat 240
 ggtcgttttc aactgctatt tttgtaggct ttgggaagtt gtgttttttt gtaggcaggg 300

cgggtagaag gatatgaccg eggctccatt cagcatcagc ccatgttgga tatatcatat 360
 atcctgccac tggcttcagg tcctagaatt gtttgctggg tcgtgcaaaa agtaataagt 420
 eggctgtaaa gcttattaag catctgccta actcatcaaa a 461

<210> 42216
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-010-Q1-K1-C1
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 cagaagctcg aggagcagaa gaccgaggca gaggaagttg tgggtggagga tgaggaggag 180
 gaagatgagg acgatgacga tgatgacaag gatgatgatg aactcgatgg ggatgccagt 240
 ggcaagtcaa agcaaagcag gagtgagaag aagagccgca aggccatgct gaagcttggc 300
 atgaagccca tcactggtgt cagccgcgtc actgtaaaga aaagcaagaa tatactcttt 360
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 ga 422

<210> 42217
 <211> 152
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-010-Q1-K1-C11
 <400> 42217

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 acttgatgc gacgctgtac gaggacacta ac 152

<210> 42218
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-C2

<400> 42218

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gccggggccgg gagaccggac gataattgat ccgtagcaga ttcgctatgg cgagacggcg 180
gacatggagc ggatcttcaa gcggttcgac accaacggcg acggttaagat ctgctgtcg 240
gagctgacgg aggcgctacg gacgctgggg tccacctctg ccgacgaggt gcagcgcatg 300
atggccgaga tcgacaccga cggcgacggc tgcctcgact tcaacgagtt catcaccttc 360
tgcaacgcc aacccggggct catg 384

<210> 42219

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-C3

<400> 42219

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cagccgaata ccctgagttc agcaacaagg ataagaccct ggtgctgcag ttctctgtga 180
agcacgagca gaagcttgac tgcgggtggtg gctacgtcaa gttgctgggt ggtgatgtag 240
accagaagaa atttggtgga gacacatctt acagcattat gtttggacca gatatctgtg 300
ggtacagcac caagaagggt cacactatcc tgaccaagga tggcaagaac cacttgatca 360
agaaggatgt gccttgtgag actgatcagt tgactcatgt ttacactttg atcatccgtc 420
ctgatgcaac atacagcatt ctcatgata atgaagag 458

<210> 42220

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-C4

<400> 42220

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 accgggatgg catattgaat gcagcgcaat gagggtcac tatttaggac atctattcga 180
 tattcatggt ggcgggaaag atttgatttt tctcatcat gagaatgagc ttgcacaaaag 240
 ccgagctgct tatcctgaga gtgaggtgaa gtgctggatg cataatggct ttgttaacaa 300
 ggatgataaa aaaatggcaa aatcagataa taactttttc acgattagag atatcactgc 360
 tctttaccat ccattggctt taagattttt cttgatgcgc actcattata gatcagatgt 420
 gaaccattct gatcaagcac ttgagaatgc atctgatac 458

<210> 42221
 <211> 460
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-010-Q1-K1-C5
 <400> 42221

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 ggcgaactcg gcgtcgggga tggccgtgag cgacgagtgc aagctcaagt tccaggagct 120
 caagtcgaag cgaagcttcc ggttcatcac gttcaagatc aacgagcaga cgcagcaggt 180
 ggtggtggac aggctggggc agccgggcca cactacgac gacttcaccg gctccatgcc 240
 cgagagcgag tgccgctacg ccgtcttcga cttcgacttc accaccgacg agaactgcc 300
 gaagagcaag atcttggttca tctcctggtc cccggacacc tcgaggggtca ggagcaagat 360
 gctgtacgag agctccaagg accggttcaa gagggagctg gagggcatcc agctggagct 420
 gcaggccacc gaccccagcg agatgagcat ggacattgtc 460

<210> 42222
 <211> 466
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-010-Q1-K1-C6
 <400> 42222

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 aaaacctcaa tgttctgaa gagaagctcc aaattttcttc cctgaaggag ttgggcctac 300
 gatttttcac ccctcgtgag gttgcccaatt tccattcctt cccttcaaata ttctgcttcc 360
 cggatcacat aagccttagg caacagtatg ctatgctggg taacagtctg agtatagcag 420
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<210> 42225
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-010-Q1-K1-B5
 <400> 42225

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 ccatgttcgg cgtcttcctc atctgcatcc ccategctat gaagtccgca gagctcgagc 240
 aacgcccgca tcaccagtc cggccaatcc catctcaact gtggtgcaaa aactttggta 300
 agaaggaata ctgaaggacc ctccaactag catgaagtgt gggcaccttg cttttgcctt 360
 ctttntgtgg aaacctgtgc ctagccataa tgctgggtta agtgtagga gcatctctgg 420
 aatgcttcgc gtagtatctt ttgattcttc tttccttc 458

<210> 42226
 <211> 334
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-010-Q1-K1-A10
 <400> 42226

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 atatgatgga agggttgtct tggaatcagt caagccctac ttgcagagaa aatgaacctt 120

gtctgggtttt ctaaattgta agctgagtag ctttgccttg ccattctgta gcctcttaac 180
aagcatttat gtgatgattc ggtttactgt tgtagcaatg gcagaaaaat ggataacaag 240
attgttacag aaatcaattt ttaggatgtt gtatatttga agtgtccatg aaaaggtctt 300
gctgtatatg atgaggtggg gttgaactca attt 334

<210> 42227
<211> 438
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-010-Q1-K1-A11
<400> 42227

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cgccgcccgt ggatactacg gcggccagta ccccggcggc ggctaccctg ctccaccggg 180
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tgcattgcgg tatcctgcca gcgggtaccc ccatcaaccg gtctaccac agcctggcta 360
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aagccacggg gcgatgct 438

<210> 42228
<211> 376
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-010-Q1-K1-A12
<400> 42228

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ttggtgtggc cagccccctta aatccaagtt gtctgtgca gaattttgtc ttgtataagt 180
gtccaagcaa accatttaaa tgtgcctttg aactgcaccc ggtacttatg cattgttaaa 240
ttttagttt ggtgacactc tacttgtttt gcttctgtag ttggtggagc gggcacagtt 300

ctgggtgaat gaattggagc ttatgaacgt ctattttatg gttggcaatg ccacgatgtc 360

ttttgagaaa atcata 376

<210> 42229

<211> 71

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-A2

<400> 42229

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<210> 42230

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-A3

<400> 42230

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ggggatactt ccttatgctg gtcttaagtt ctacatatat gaagggctga aggtacatgt 180

accagaagat tacagaagtt ctgtaacatt gaagctgtca tgtggtgctg ctgctgggtt 240

atgtggacag actctgacat atgcattaga tggtgtcagg aggcagatgc aggttcaaaa 300

atcagcaaca acatgagcaa tttggtgccc cacgaataac gggcacattc cagggtcttg 360

tgtccattaa acaaacacag ggttggaac aattatttgc tggcttgagc ctcaattaca 420

tc 422

<210> 42231

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-A4

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 aaggctgaag gtacatgtac cacaagatta cacatgctat gtaacatcca agctcacata 240
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<210> 42232
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-A5

<400> 42232

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<210> 42233
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-A6

<400> 42233

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gtccctgtgt atgctgttgt tttccagcag aagaagactg catctgcata atctgaaacg 360
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<210> 42234
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-A7

<400> 42234

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<210> 42235
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-A8

<400> 42235

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aacagtttta cttggaaacc ttccacgaac aactatatac aggaatgtag aacagtatcc 180
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acaggaccag aagttaacaa aaactgagtt tctaatacggg gacctgtctc ctgtaattga 360

tatcgacaca agtggaaatcc atgcttttga cgagttggcg aaagctctcg aaagcgcaat 420

<210> 42236
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-A9

<400> 42236

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tccctggcgc acagggcgcg gggcccctgc acggcgacca accccatcga ccagtgtctg 240
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gacgcgctcg acctcgtcac cccaggaag ggcacgtcc ggcacgcgt gaccggggc 420
cgggcgctgt ggatcacctt cgcgcgcgac atggtagatcg a 461

<210> 42237
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-B1

<400> 42237

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ttagtctctg catctgatgg catgcggggc cgtcgagcgc cgctacgagg gtgagcaggc 240
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<210> 42238

<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-B10

<400> 42238

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gcggcaggag ggtcattaaa taaatctact tttctgtttc agggtaggaa atgatgtccg 120
agagtgaaga gcatggctcg ctcttagaca agatcaacga caagatcaac gagaagatcc 180
atgagtataa gcactcgctg tctctctcct cctcttcgga ctgagacgat gacaagaagc 240
ccaagaagtc taagaagaag aagctttttg gaagaaaaca tccattgcat catgtcctcg 300
gaagaagcaa aac 313

<210> 42239
<211> 416
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-010-Q1-K1-B11

<400> 42239

gtcgatgagc ttaatagggc aaaggaaatt gtttcaaac tggaggagag gttcaagtta 60
aagcctgnga ttccacgcaa ggatgatggg tcaatagctt ttgaaaatga cttcttcaaa 120
cgtcaagctt ttttgacagt gtctggacag cttcaggttg agacatatgc atgtgctctt 180
agtagcgttt atacctttgg accaacattc cgggcagaga actcacatac gtcacgacat 240
ttggcagagt tttggatggg tgaaccggaa atcgcatctg caaacttgca ggatgacatg 300
aactgtgcag aaaaatatgt acagtacctt tgcaagtggc tgcttgacca ttgccaggaa 360
gatatggagt ttatggtgaa aaattatgan tagagtgcaa ttgaacgcct ggagct 416

<210> 42240
<211> 249
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-010-Q1-K1-B12

<400> 42240

cgggattgtg ggcgagtgcg tgcgttcgtg cagtcacaga caggcgttcg ggcaccatgt 60
ctgtcaccgg cacgcaggac aagtgcacgg cgtgcgacaa gaccgtccac ttcacgcacc 120
tcttcacggc cgacggcgcc atctaccata agacatgctt caagtgcagc cactgcaaag 180
gggtcctctc gatgtgcagc tactcctnca tggacggtgt gctgtactgc aagaccact 240
tcgagcagc 249

<210> 42241

<211> 172

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-B2

<400> 42241

gcaaggaggt ggagcttgtt cgaagaagaa accttaagaa aggggtgttga aaaatatggg 60
gttggaatt ggaaggatat tctagataac aatgcttaag cttttaacgg caggacaacg 120
gtggacttga aaggccagtg gaagaacctg ctttttccgt gattgtaccg gg 172

<210> 42242

<211> 367

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-010-Q1-K1-A1

<400> 42242

attggtttcg acaacagcag ctcagcggcg ctgaatagct ttttcgctat tgggtgcgcc 60
agtggatcat ttctgggtgg tgtgatagca gatgtcttat ctagatacta tccagattct 120
gctcgcgtca tgtgcgctca gttcagcgcc ttcattgggca tccctttttc atggatcctc 180
ctcacagtca ttccccagtc tgttgattac tgggtctgct atgccgtcac actcttttta 240
atgggaatta ccataagctg gtgcgctact tgtgcaaaca accccatgtt cgcagaggta 300
gtccctccca agcaccgcac aatgatctan cgccttgacc gcgcatttga ggggtcattt 360
ggctcgc 367

<210> 42243
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-010-Q1-K1-B4

<400> 42243

 atcgacgtcg tgcagagctc cacggggatc accttcttca actgccactt taacaaccac 60
 aacggcgctca tgctcttcgg cgccagcgac tcctggccgc atgaccagat catgcagatc 120
 accgtcgcct tcaaccactt cggcaggggc ctggtgcagc ggatgccaaag gtgccgctgg 180
 ggcttcttcc acgttgtcaa caacgactac acgcactggc tcatgtacgc cattggcgcc 240
 ggcgacgcgc caaccatcat cagccagggc aaccgctaca tagcaccacc aaacatcgcc 300
 gncaaagtga tcaccaagca ctacgcggaa gaaggcgtgt ggaagaactg ggtgtggcac 360
 acggaggacg acctgttcat gaacggcgcc atcttcaatc cgtccggcgg cgccccccag 420
 caggtcgaca ccaacgagtg ggt 443

<210> 42244
 <211> 466
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-009-Q1-K1-G6

<400> 42244

 gtttatccaa aacatgctgt cattgtcaga ggatccatca ttgatgatgg cattttcaat 60
 ggcacgtctt gcagctgcgg tgccgcttct attagtcaat ggcacctata agtcaactgt 120
 tagcacatac cttgattctg ctattctcca acatcagcta cagaagctaa atgagctcaa 180
 ttcactgaaa ggaaggcatt cacatcacag gtcaacatta gaggtcccaa tattctggtt 240
 catacataat gaacccatat tattggacaa acattatcaa gccaaaggctc tctcaaatat 300
 ggtcgtagta gttcagtcag atgatgattc ctgggaaagc catttgagct gcaatggaag 360
 acccatctta tgggatttga ggaaaccggt taaagctgct attgctgcaa ctgctgagta 420
 tgtatctggt ctacttctc cacatctggt ttatagccat gctcat 466

<210> 42245

<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-G8

<400> 42245

aaaacatggc tgtgaatgtg agaaccatgt ggctgctgat gcgggcacat gttgcgatgg 60
ctgtggcggtt ggtgttcttg gtgagcggcg catggtgcgg tcttcccaa gtccccccag 120
gcaagaacat cacggccacc tatggcaagg actggttggg cgctaaagcg acatggtatg 180
gcaagccgac ggggtgccgtt cccgacgaca acggtggcgg ctgcgggtac aaggacgtga 240
acaagcccc cttcaatagc atgggcgcat gcggcaacat ccccatcttc aaggatggtc 300
tgggttgtgg gtctgtcttc gagatcaagt gcgataagcc tgtggagtgc tccggcaagc 360
ccgtggtggt gcacatcacg gacatgaact atgagcctat cgcggcgtag cacttcgatt 420
tagcaggcac ggcgttcggc gccca 444

<210> 42246
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-G9

<400> 42246

catcaattgc aagaggagca agataccacc accgtagcac cacacgcagg tacgaagaat 60
gcgacgaaca tggcgaggct ggccttggtg gcggcggtgg ttctgtgcct cctgttagcg 120
acagggccgc aaggggccat cagcgccgaa gggatggtgt catttgaaa tttgatcaac 180
tgcaaagtac tgggcaactg cgacaagaac ctgggccccg aagcctcccg cccaaggaaa 240
cccgccaacg actacaccg cggttgaac ccgatcaccg gctgtcgcgg ctgatcatat 300
ctctctggtc gatgggcgcg caatgtcaat gtcgcacgcg cgtgcaagta ccaagcctta 360
acgtgtggtg ccgcgtgtgt gtatatatta cacacatgca ttatacatt 409

<210> 42247
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-H10

<400> 42247

cttgtgggaa aataacatat attcactgca tttctggaag gggccggagt acaacaatcg 60
tcttgtgcta tctgggtcaaa tacaagaata tgacacctgc agcagctttc gagcatgtac 120
ggtctaaaag ggctcgagtg ctgttgacac attcgcaatg gaaggctgtt caagaattca 180
gcaagaagaa cacggacctt cctgc 205

<210> 42248

<211> 136

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-009-Q1-K1-H12

<400> 42248

ggcgaccacg cgctcgagct agcgatggct ggagcccggg cactgtttat cgtcctcgcg 60
gctgccgtcg cggctgtggc cgcgcggccg gcgtctgcan gcggtggagc cgcggcgggtg 120
gcggagatct gcatga 136

<210> 42249

<211> 475

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-H2

<400> 42249

ctgctcttga aatagcttac aaacaggcaa aaaagcgagg aataagagtt cgtggggttc 60
tcatatctaa cccttcgaac ccaacgggag gcatttgtgcc aaaagaaata ctgcatgacc 120
ttctacagtt tgctgcagag aagaacatac acttaatttc tgatgaaata tttgctggtt 180
caacatatgg aagtgacaag tttgtcagcg tggcagatgt tgtggatgaa ctagaggact 240
ttgataaagg cagggttcat atcatatatg ggctctcaaa agacctatct cttgccgggt 300
ttcgagttgg agtgatatat tcctacaatg aacacattgt atcggtctgt gctaaaattg 360
ctcgattttc atctgtctca agtccaacac aacgtttgct tgtttccatg ctttcagatc 420
aaaagtttat ttcagaatac ataaaggtta acagagagag gctccagaaa atgta 475

<210> 42250
 <211> 465
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-H3

<400> 42250

gtggcaattg atgagattca atatcctcca gctgttaaac aaactgagat tccactccca 60
 aggggtccgaa ggaaaagaaa tttctgatgc cgatattcta aactggggcca actgcaaagt 120
 gaaggcatcc ggaagaacat ctctgatgga aagtttcaag gacaagagct tatcgaatgg 180
 aatgttcttc cttgatcttc ttagcacagt acagccaagg gttgtgaact ggaaagttgt 240
 tactaaaggg gaaactgatg aggacaagaa gctgaatgct acctacatca ttagtggtgc 300
 aaggaagatt ggatgctctg tgtttctggt gccagaggac atcattgagg tgaatcagaa 360
 gatgatccta acacttactg ctagcattat gtattggagc ctacagaaac agccccagtc 420
 acaatctgaa ttgacagaac aatcagaacc atctagcatg acttc 465

<210> 42251
 <211> 468
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-H6

<400> 42251

tgatgcctgg tatgaggcct ggtgggtccaa tgccgaactt tatgatgcct atggttcagc 60
 aaggacagca tccacagcgt cctgctggta gacgtgctgg tggaatgcag cagcccatgc 120
 caatgggtgg tcagcaacag gtgttcctta gaggtggctg tggctatogc tatectactg 180
 gacgtggaat gcctgatcct ggcattgcaca gtgttgggtgc tgtgatgcca ccttcatatg 240
 agatgggagg gatgccaatg agagaagctg cccccaacc tgttccaatt ggggcgctag 300
 ccactgcact tgctaacgcc ccaccagatc agcagagact tatgcttggg gagaacctgt 360
 atcctcttgt tgaacagctg gaacgtgagc aggctgcca ggtcactggc atgcttttgg 420
 agatggatca gacggagggt cttcacctgc tggagtcgcc agatgctc 468

<210> 42252
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-H7

<400> 42252

cggtctcttg ggcccgtgtc tgggtcgctc gtttctgag gatcagtcca acccccaggg 60
ccggcaagcg gaggagaggg acgtgatggt ggagcagcag cagccgacga gggccccgaa 120
gctgacgtac ctggacttag tccaggtggc ggctgtccag gccttggtgt gcctcgatgg 180
gctctacgga ctcgccaagg accacgccgg cccgctccgt cccagcggtg acgccgtcga 240
gtctgtcgtc tagggcgctc atagccacgt ctacgaccgc ttcagcgagc tgccgctcga 300
catcctcgac ttctctgacc gcaaggcgga cgacacggtg cagcagctgg acatgcacca 360
tacgggctcg ctgaaagcgg cgtccgtgca tgtc 394

<210> 42253
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-H8

<400> 42253

cttgggagtt gctgcagctt ctgctaacc ttctcacttc atccatttgt gctacaaacc 60
cactgatggg aacgtcaaga gaaagctggc tattgttggg aagggtttta cttttgacag 120
tggtggctac aacattaaga cggggccagg ctgcagcatc gagctgatga aatttgacat 180
gggaggctct gcagctgtat ttggtgcagc taaagctttg ggacaaatca agcctcctgg 240
agtagaggtt cactttatag tcgctgcctg tgaaaatatg atcagtggca caggcatgag 300
gcctggtgac attgtaactg cttccaatgg gaagacaatt gaggtaaata aactgacgc 360
agaaggaagg ctaacacttg ctgatgcttt ggtctatgct tgcaaccaag gtgttgaaaa 420
gattattgat ttggcg 436

<210> 42254
<211> 84
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-H9

<400> 42254

accggaaccg gaagggccgg gccagagcga cccgtacgat acatcctcat ccgattacgg 60

acccggattg tatacatcgt gtac 84

<210> 42255

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-009-Q1-K1-F11

<400> 42255

aagagctatc catacgcaca gcgatgcacc agcacgagat actagccatc atgcgcctgt 60

cgtccctcct cctcgtcgtg gccgccctct cggcgcgcgc cgcggcgcan caggtgccgc 120

cgggtgggcgg cagcgctctg aagccggact actacagcca gtcgtgcccg cgcgcggagc 180

ggatcatcgc ggaggtgatg cagacgaagc agatggcgaa cccgacgacg gccgcgggca 240

tgctgcgcgt cttcttccac gactgcttcg tcaccgggtg cgacgcgtcg gtgctgatcg 300

cgtccaccca agtccaaaag tcggaacacg acgcggagat caaccactcg cttcccgggg 360

acgccttcga acgcgggggg cgcgccaagc tggccctgga gctggagtgc cccgggggtg 420

tgttctgcgc cgacattc 438

<210> 42256

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-F3

<400> 42256

accttcccaa atctcagttg tcgcctgtcg tcgtcttcgt ctagcccggc ccgttccaaa 60

acctccgtag ccgccgccgc caccgccggc accgaagatg atctccccgg acgcagcccc 120

caacgtagtc ggcacatcgc gcaatgtcat ctcttcggc ctcttctgt cccagtgct 180

gacgttctgg cggatctaca aggccaagga cgtggaggag ttcaagccgg acccttacct 240

ggcgacgctg ctcaactgca tgctctgggt gttctatggc atccccgctg tccaccccaa 300
cagcattctc gtcgtcacca tcaacggcat cggcctcgtc atcgaggccg tctacctcac 360
tatcttcttc ctctattccg acagccagaa gcgcaagaag gcgttcgcga tcttggccgt 420
ggagattctg ttcattggcg ccgtgggtgct cggtgtgac ctc 463

<210> 42257

<211> 470

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-009-Q1-K1-F4

<400> 42257

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tggtgagggg catcaacctt gctaccgag acgcaagagg cagcgatccg tatgtcgctc 120
tacgacttgg caagaagaaa cttaagacga gcgtgaagaa gagatctgtg aaccccatct 180
ggcacgagga gctaactctg accgtcacag atcccagcct agctctgaag ctggaggtgt 240
tcgacaagga cacgttcagc agggacgacc cgatggggga cgcgagagac gacgtggcgc 300
cgctgggtgga ggcggcgaac gctagccctg aggcgagcct gaggaacggc gccatcatcc 360
tgtcggtgag gccgatcgcc acgaactgcc tcgccgacga gagccacgtg tgctggagga 420
acggcaagtt cgcgcagac atgaccttc gnetcaagaa cgtggagagc 470

<210> 42258

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-F6

<400> 42258

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ttcatccgct aggaattttt tggagatggt ctaagatctt catccgccag ggaattgcc 120
gctaattgga gtctctcccg tagtcccggt tttgagttgt tctcctctca tctccatctt 180
cgcaacgacc acgaattcca cgccaacca atctctggct tatcgctctc ttctccttgt 240
ctttaaatct gagacttttt ttgttcgct cctccgccct caaccgtagc cacctcgctg 300

cccctgccgt cgacaccctt gctcgccgtt gctgcagccg cacagggcat ggatcatgaa 360
gaagtgaccg aattcctggg ccaagtgcc cttctgcagt gccttcggg ttcctctatc 420
cgcagaatcg cggaggccgt ccaggtcaag aac 453

<210> 42259
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-F8

<400> 42259

cccacgcgtc cgaaaaaaaa aaaaaaata atttaaaaa aaagggcgga cgatctgcag 60
gacgcaatct tacatccacg cttacgtcca cttacatgct atcgtataag gtcacctata 120
atgaatctaa tgtccgttga ttgacaacgt gctttactgc gaaaacactg gcaaaaccct 180
gcttaatcgc attgcaatac atttgcattt catcagctgt ttactagcg aagaagctcc 240
ggaccaatcg cgcttcgat cgaccttcgc aacctgtatg gagaatgga 289

<210> 42260
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-F9

<400> 42260

caagggcgca accaataata gcaagtgtga tcatccgttg atccatcttg ctaataaccc 60
tgcgtgccct tcgttctcgt ctgatcccg acgacgtcc cttcgggtcc ggcaaaccac 120
atcaagtcgc gatggagatg aagaaggctg cctgcgccgt cctcgccgcc gccgccttcg 180
ccaccgtggt cctcgccgcc gagggcccg cgcccgcc caccagcgcc tcctcggtg 240
cgttcccgcc cgtcgccgcc gtgctgagcg cctcgtgct ctccttcttc gcctactacc 300
tgagtaaaa ttaaagagg atcggaagga gaggtgctg gctgccattg cctgtattcg 360
gttgatccc cgttatatat atatatat atttaaggac tttaatttgg gctgaacatg 420

<210> 42261
<211> 443

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-009-Q1-K1-G1

 <400> 42261

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 caagggggga ggggaaaaca cgtacattca cccggcggca ataatggcct cggttccggc 120
 tccggcgacg acgaccgcgc cgtcctcct atgcctatgc gtcgtcctct cctgtgccgc 180
 ggctgacgac ccgaacctcc ccgactacgt catccagggc cgcgtgtact gcgacacctg 240
 ccgcgccggg ttcgtgacca acgtcacga gtacatcgcg ggcgccaagg tgaggctgga 300
 gtgcaagcac ttcggcaccg gcaagctcga gcgcgccatc gacgggggtca ccgacgcgac 360
 cggcacctac acgatcgagc tcaaggacag ccacgaggag gacatctgcc atgtggtgct 420
 ggtggccagc ccgcgcaagg act 443

<210> 42262
 <211> 196
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-009-Q1-K1-G11

 <400> 42262

 gatgaaccag cagagctacg cgctgtacgc gttgaagtcc gtcggggacg ggggcaagga 60
 gcgcctggac aagaagctgt cggaggcgaa gaaaaagaag gtcacgtacg tgggtggacc 120
 cagcggcaag ggcgactaca ccaacatcac cgcggcgctg gaggatatcc cgggtgagca 180
 caccaagcgc gtgac 196

<210> 42263
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-009-Q1-K1-G2

 <400> 42263

 cggacgcgtg ggtgttgag agattttttt taccgagaa gctgcgccgc gccccaatct 60
 gatcatctcc atgcgctgaa gatcgttggt gcccgccatg cttcccgatg attgctgcca 120

catcgctcgct gaggaaattt caagcccat agctgcacat atactcgact tctactacgg 180
cgacgacggc ctgggcatg acctctttgc cgcggtgact gccacctctg gccattccc 240
tgccactgac gatgatgttt ctctgtctac cgctaccacc cctcctatct gcggctacag 300
tgaagacacc gcagctgctg gtggagccac agcctacacc ccgttgacat ccttcgacac 360
cactctcaca gccctcctgg aggaagagca gcacatggc cttgacgccg ggttcctccc 420
gcagatcgat ggcttatcag aggtagcagc atacta 456

<210> 42264
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-G3

<400> 42264

gggtgatggc cagcccatcg gtcgctacga cgacatgtgg gcaggatggt gtgtgaaggt 60
catctgcgac cacctgagcc tgggagtcaa gactggcctg ccatacatct ggcacagcaa 120
ggctagcaac cccttcgtta acttgaagaa ggaatacaag ggcattcttct ggcaggagga 180
catcatcccc ttcttcaga acgtgaccat cccaaggac tgcgacaccg tccaaaagtg 240
ctacatctac ctctctggac aagtgaagga gaagctgggc acgattgacc cctactttgt 300
caagctcggc gacgccatgg tcacctggat cgaggcctgg gatgagctga acccgctcac 360
ccctgccgcc gcaaatggca aggccaagta gatgtgccat cacttcggca ctggagtga 420
aaagaaagta tgattgggtc ctgcctaggc ccataaata t 461

<210> 42265
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-009-Q1-K1-F10

<400> 42265

caaggcgca accaataata gcaagtgtga ttatccgttg atccatcttg ctaataaccc 60
tgcgtagcct tcgttctcgt ctgatcccg acgacgtcc cttcggtcc ggcaaacac 120

atcaagtcgc gatggagatg aagaaggtcg cctgcgcgct cctcgccgcc gccgcctacg 180
ccaccgtggt cctcgccgcc gagggccccg cgcccgcgcc caccagcgcc ttctaagctg 240
cgttccccgc cgtcggcgcc gtgctgaacg cctncgggct ctccttcttc gectactacc 300
tgcagtaaaa ttaaaggagg atcggaggga gaggtgctg gctgccattg cctgtattcg 360
gttgatccc gcttatatat atatatat atgtaaggac ttttaatttg gtctgaacat 420
gtcgattgat ccattcattt tattt 445

<210> 42266
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-E11

<400> 42266

gagctgaagc gaagagcagc ggcgcaaagg atagggagcc atgctcgct cgccggcgct 60
cgccggcgcc cactccttcg cggcgctcgt gtatagaaac atcctcgctt cctcgctctc 120
cgtccccgcg ccggcacgtc ggcggcgct gtccgtcgtc gccaaaggtca aggtggccac 180
gccccaggac gaccgcacg cccgccacgt ccgcctgcgc aagaaggtaa gtggcaccac 240
tgagaggccg aggttgagt ttttcgctc aaacaaacat ctgtacgtc aagtcacga 300
cgacacaaag caatgtactc tggcttcagc ttcaaccatg cacaatctc tctccaaaga 360
atgtgaatac tcggctgggc caacgatcga aatagcacia aagatc 406

<210> 42267
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-E12

<400> 42267

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tcttgaaagt ccgggtggtg aggggcatca acctgccta ccgcgacgca agaggcagcg 180
atccgtatgt cgtctacga cttggcaaga agaaacttaa gacgagcgtg aagaagagat 240

ctgtgaaccc catctggcac gaggagctaa ctctgaccgt cacagatccc agcctagctc 300
tgaagctgga ggtgttcgac aaggacacgt tcagcaggga cgacccgatg ggggacgcgg 360
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ac 422

<210> 42268
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-E3

<400> 42268

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tcttctgcgt tgacgttgac ctcgaggccc gcgccgagat gaattccgcc gtcttctccg 180
catcagcgtc ctctggctcc acctagaccg cttcaccgga tccgacgcag ccctgggagg 240
ccgggggttc ccaagcggcg gtgccccgga ccgcggtcag ggggacggac tcggtcaggc 300
aggcgtgtt gctgatcgtc cacagcaagc tcacatgt 339

<210> 42269
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-E5

<400> 42269

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cacttcgact tgagcggcaa ggccttcggc tccctggcaa agcccgggct caacgacaag 180
attcgccact gcggcatcat ggacgtcgag ttcagaaggg tgcgatgcaa gtaccccgcc 240
gggcagaaga tcgtgttcca catcgagaag ggctgcaacc ccaactacct ggccgtgctg 300
gtgaagtatg tggcggacga cggcgacatc gtgctgatgg aaatccagga caagttgtcg 360
gctgagtgga agcccatgaa gctctcttgg ggcgccatct ggaggatgga cactgccaag 420

gcgctcaagg gcccccttc

438

<210> 42270
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-E7

<400> 42270

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caataatggc ctcggttccg gctccggcga cgacgaccgc cgccgtcatc ctatgcctat 120
gcgtcgtcct ctctgtgcc gcggctgacg acccgaacct ccccgactac gtcattccagg 180
gccgcgtgta ctgcgacacc tgccgcgccg ggttcgtgac caacgtcacc gagtacatcg 240
cgggcgccaa ggtgaggctg gagtgcaggc acttcggcac cggcaagctc gagcgcgcca 300
tcgacggggc caccgacgag accggcacct acacgatcga gctcaaggac agccacgagg 360
aggacatctg ccaggtgggtg ctggtggcca gcccgcgcaa ggactgcgac gaggtccagg 420
cgctc 425

<210> 42271
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-E8

<400> 42271

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ccgggctacc agtatggctg aacctcgtag tcttgggaat tttattataa aattcaccgg 180
attgtctaca gtaaccggtc ggtggtgcac cggaccctct ccaacggcta tcttccaatg 240
ggcgcgcact ggccaacggc tagctaactg ggcattccagt ccgaagggtg accagactgg 300
tccagtgcc gtcagctatg gaaaccgccc aatcatatca caaactcagg gcatgtggat 360
ctggttcagt ggcgcacga atcagtcagg tgccccaca ggcaaccagt ttttaacatc 420
tttttagaag gggcaataaa tatggggcct ttgggtctac aa 462

<210> 42272
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-E9

<400> 42272

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ctggccagtc ttatactggt aagcatggtg aggttaacgc caatgttact attgagcact   180
acctacaagt tgtaaagact gagcttgtaa cacagaggtc ctcaaaggaa ctgaaagtgc   240
ttgaggaata cgaatacaca gcacacagca gcttgggtgca cagcttctat gttcctgttg   300
tgaaattcca ttttgagcct tctcccatgc aggtcttggg aactgaagtc ccgaaatcct   360
tctcccatth catcacaat gtctgcgcta tcatcggtgg ggtcttcacg gttgctggaa   420
tactggattc catctttcac aac                                           443
  
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<210> 42273
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-C3

<400> 42273

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atagggcttc acgtgcgggc tcgctcgaga cagtggatcc agcgcgggat tccgttgga   180
ttcggtcggt tcatcgcgga gcatcgaagg agagggcatc gtcgcaattc acccgtgcc   240
atggccaaag acctccgcgc cattattcct ggcgcgaaga cacgtgtcat ctgaaaggca   300
agtttgtacc tggaatctca agtcccaggc aagttgtgcc cttgaccact tcttacccaa   360
taatgttctt tgatgtcaca tgttcatgca taggtttaat tttgatggaa cccaataagt   420
tactctagat tgtttatccc attaccttgt ttacccttg                                           459
  
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<210> 42274

<211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-C5

<400> 42274

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 gactactaca gataccttgc tgagttcaag actggagctg agagaaagga cgctgctgag 180
 aacaccatgg tggcatacaa ggctgcccag gacattgctt tggctgagct tgctccaact 240
 caccctatta ggcttggact ggcactcaac ttctcagtgt tctactatga gattctcaac 300
 tcacccgatc ggcctgcag tcttgcaaag caggcttttg acgaggccat ctcggaactg 360
 gacaccctga gcgaggagtc ctacaaggac agcactttga tcatgcagct ccttcgtgat 420
 aacttgaccc tatggacttc tgacatctc 449

<210> 42275
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-C6

<400> 42275

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 tgctgtcat tgttggcttc atatcttcta gttcaaagga aaagaagaag catgcaccag 180
 tgaaaccatc tgatgcaaaa agaactcgta gggatcgcac ggagatggaa aacgttatat 240
 tcaagctttt tgaaaggcag tccaattggg ccctaaaggc actcgtgcaa gaaactgacc 300
 atccagagca attcctgaag gagatattga acgatctgtg tgcgtataat aaacgaggtt 360
 caaaccagtg aacgcatgat ctcaagcctg agtacaagaa atccacaggg gacactgata 420
 ctgcttgaag atgagagacg actaggtaga atcgatagtt ctc 463

<210> 42276
 <211> 454
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-009-Q1-K1-C7

<400> 42276

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gcgaagagga atcaacgcga tgtctgcgac cagcgggcg gtgcccttct ggcgggcggc 120
cgggatgacc tacatcggt actccaacat ctgcgtgcg ctggtacgga actgcctcaa 180
ggagcccttc aagtccgagg ccgcgtcccg cgagaaggtc catttctcca tctccaagt 240
gacggatggc aaacaggaga agcccactgt ccgcacagaa tccgatgaat aaagctctgg 300
tgccatagtg gcatagtcct tgctacagat gatttgaagt gttgttgcaa gtttctgaa 360
catgctatth agctggcttg attttatagt caatgctgaa taataaatac tttttacgac 420
aattgtctnt ttcgttgcta attgcactcg ccct 454

<210> 42277

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-C8

<400> 42277

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gtcggatttg caagaggaga ggccgcagag cagcgaggtc gtggagacag aaacgggggc 120
ccatgagcgc acggacgatg gctcaccggc cgtcgttga gaagcagcag caacacctga 180
gggagaagat gagcttgcaa ccagcgcggc agaagagaag atcgtcgagg agatccagcg 240
agcagaggcg actgagaact cgaaggcgaa cgcgaaccct gaggaaccag accaagaaac 300
cggcgtgatc tccgaagaac ccaaggagg aacgagcgtg gtctctgaag aacaaaaacc 360
aaaggaggca gctgaccta cactgcgca gaagcgcgag gaggcgttcg acgagccaaa 420
aacggctgcc ggatcgaacg cg 442

<210> 42278

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-D1

<400> 42278

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ttatgagtag atgggatacc ataaaaacac aatgctcact attttctggc tacatggcaa 120
atgtcctacg agagaactct agtgggttgt ccgacgctga taagacatct ctagcagctt 180
ctcgatttgc tactatggag aagcgcccat tcaactctttt gcattgttgg tctattctaa 240
aggatgaacc aaagtggatg gatcatagtt ccaataagca agttcgaatt attgaagttg 300
caccaattgg atcgaacatc atcgacctag accctaaaga ctcttttctt ggtagcacia 360
catcaaagca acatctaggt caagatgcaa gcaagggaaa aactaaaaag gctcgatcaa 420
gctcaatcac tgtaagctca tcggatgaat atc 453

<210> 42279

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-D10

<400> 42279

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tattctaaac tctactctat aggcaatgtt gtctacgggtg taaaaacagt attttgtact 120
ctactctata tacagagtta atttgtactc tactctatac agagttgtct acaatgtaga 180
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<210> 42280

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-D11

<400> 42280

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ccgcctccta ttctgcctc tgccctcgac atgcccaagc caaacctgcg gggccttaac 180

aagcccaagt gcatcttgtg tggtaacatc gcccgctccc ggtgcccatt ccagtgttgc 240
aagagctgct gctacaaggc tcagaatcct tgccacatcc atgttctgaa gcagacaaac 300
acattgccag ataagccgtc acctgcaact gtcctgcaa caacagaaca tcaatctaac 360
aatttacctg caaccagttc agcgtcaagg ctggctgect tgcaaaagct tccccagcac 420
tttctgaagt ttctgcaaac aaagaa 446

<210> 42281
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-D12

<400> 42281

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tacaacaacg ccaaggacag caccgtgttc aagtgtctac acagctgctc ggacgacgtc 180
gaggaggccg tcgcccact caacggcctc gtgcgggagc ccaccgacgc caagttcctg 240
gagctcaagt cgtggctcta cttcacgtc ggcggcacct acacctgcga ggacgcctgc 300
aaggacctgc ccaagaacgg cgacaaggac gacgtcgtca acttcag 347

<210> 42282
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-D3

<400> 42282

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aactacgtta ccacggatca ccagatccgc tcccttctct tccgtcagca gtagaggcgc 180
aagaagatgt agagaacccg tctccattcc cataagcacg acagaggaaa cacacgagac 240
actggatata gggttggacc tctggcctct ttctgatctc tgtattatga gggggtgtac 300
aggttcctta tatagagata tgagaccct catgggcaaa gcaggtatgt gccacataa 360

ccctaattag gggtacttaa caaatataac aaacaaatat cactgagaaag agggcatcac 420
tagtagaaaa aggctcaaca cctgcgggac gatatatatt 459

<210> 42283
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-D6

<400> 42283

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ccagggaggt cctagcggaa ctggtgacgc ggttggcgcg ccgcgcatgc catcgcaacg 180
gggtcgtcac cgacgtcaag tcatccggcc aggtcagcct cgctacggc atcatgaagc 240
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tcccgcaaga actccactat ctgaacaagg aggacaggct gcttcgctgg ctggtcgtga 360
agcacagaga caggtatac ggggttgagt tcttgaacgc ggatggcggc agggacgagc 420
tgagaagttt cagccatggt cacacgaagg gcgactacga 460

<210> 42284
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-C2

<400> 42284

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cgacgcgtgt cgacgtcgtt gagggcaggt ccatggcgtc cgccgacgcg ccggaggccg 180
ccgcaccatc acccgggcct gactccgcct cgtcaccgga ctctcgtcgt gatgcgcctt 240
ccagcagcag ctctcggac tagatagcta gccgctcgac gcacgatctc gctctccatc 300
tacacggcga tcgagttcta gctttgtcgg catgcaatgc aaaattccga ttcttcggga 360
ataatcaagc accaaaggaa tgtgcttgca tcaactacta ctagtacctt gtttttatat 420

atgttttcctc tcctgacgct ctccgatttt aatc 454

<210> 42285
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-B10

<400> 42285

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cagctgcttt cgcaccatgg tagttggttt tggtagagac aagtctgtta caattttttt 180
accttagctt tccaattatt gtgtcgcaat aatcgaatta attgttgctg ggggattttt 240
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<210> 42286
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-B11

<400> 42286

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tgatcttctt tctgatctca aagatatccc caagaaagcc tgtgaccgcc ggatcaatga 180
atgtgttaaa cgtgctagag ctgccaagat ccatgcttat ataataggct atctaaagaa 240
ggagatgcct acaatgatgg gcaaagcaaa agcccaacaa cgactcatag acaatctgcc 300
tgatgagttt gcaaagggtgc aacgggaata ccatcttccg tcgggagatt ttccttatgt 360
ggagcacttc aaagaggctt tgagcgggta cagctttgac aagtttgaga aggtgaagcc 420
caagatgata caggccgtgg atgatat 447

<210> 42287
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-B12

<400> 42287

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attcacccca tatgataagt tctgcccatt ctacaaatct gtttggatga tgcgcaacat 180
tattcacttc aacacattgg caaatcaage tgtggagcgg gcagctggta ctgacggcca 240
taagataaca tacagtgtca taaagcatcg ggtgggggat ctattttatc ggctaataatt 300
ccaaaagttt gaagattct 319

<210> 42288

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-B3

<400> 42288

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tgcaccggag gcggctgccg atgctccgc tctagcccc gactccgcct catccccaga 180
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ttctctggaa taactaacag tatatacggt gcaccctgat gatataaaaa catgtacgtg 300
catcagtgtg tggaatgcga gtggcaaaca catggaatgt gcttgcctaa ttattgggta 360
tttctttatt tattatatgt ctctctcggg tgttttttat ttttcttaat gcatgtaata 420
taatttggtg tacccaatat agacaatgtg tgc 453

<210> 42289

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-B5

<400> 42289

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gagcttatct acaagcatgc tgtgcctggt ccgaagtctg agtgcagcaa gactaccag 180
ttgggtatta gctttgctgg tggttacatt gccggtgtct tctgtgctat tgtttctcac 240
ccggctgaca accttgtgtc tttcctgaac aatgccaaagg gagctacagt gggagatgct 300
gttaagaagc ttggtctctg ggggtctctc actagaggac ttcctcttcg tatcgtcatg 360
attggtagcc ttactggtgc tcagtgggga atttacgatg cattcaaagt gatgggttga 420
ctcccaacaa cgggaggtgt tacacct 447

<210> 42290
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-B6

<400> 42290

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tgtaggcaga ctttggccta gccgagcaag caaatttctt ccacgacaac agatccatgt 120
tcaaggaacc aaagaatgaa tgtcagcatt cttatttgca ttggatcgaa ctatactata 180
ctaacaaggt ggcaatgcct attcgtggcc aatcatatgc tatgctacca ttcaaggcac 240
aatgccttca catctcgaat gctctactcc tcgcacaggg ctacttcccc cttctcttgt 300
agaggcaaga ggatgctcca ttggagatgg cagtgctaca ttgtttctgg gcggcgtgtt 360
ggctgcttga acctc 375

<210> 42291
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-B7

<400> 42291

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ctcggcgttg cctccattgg tgccgccaag ctctgcctca ccgcccggagg tcttgcccta 180

cccagctact ccgactctgc caagatcgcc tacgtcctcc aaggcaaagg tatcttcggc 240
 gtggttctcc cggaggcgac caaggagaag gtcattctccg tcaaggaagg cgacgcgatg 300
 gcgctcccct tcggcgctgt cacctgggtg cacaacaacg ccgacgccgc tatctccgac 360
 ctctggtgac tcttctcgg cgacaccttc acggggcaca agccgggcca gtttacaac 420

<210> 42292

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-B8

<400> 42292

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 cagccatgcc cgctcgcgct cgatggcgac tctctcgct gccgctcgcg ctcttactcg 120
 ttgccgggtc ggcgcattgg ctctgaagc cggaggcagc cgcgccgccc aagccccccg 180
 tccccaaagg catatcggac ctgagggacg cgatcgtgaa ggggctggga ttccaggccg 240
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 acgagttcga catcgaggtc ggcaggaagg tctaccggc gcgcctgctg gaggacgtca 360
 gccggtggga ctctctgac ctcccatct tccgttcca gcccgacgct gacgatacgg 420
 cgctcgccga gatccggcg gccgggagg ggagcatcgt tg 462

<210> 42293

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-B9

<400> 42293

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 tggaagtata ctggcattgg agacattaaa gcgtgtagtt ggtgctggta atcgggctcg 120
 tgatgctctt gttgcacagg ggcttaaggt tggctctgtt gaagtactcc ttggtattct 180
 tgattggcgt gttggtggaa gacaggggct ctgtaatcaa atgaagtgga atgaatcaga 240
 ggcttcaatt ggacgtgttt tggctgtgga ggtgcttcat gcttttgcaa ccgaaggtgc 300

acattgtgct agagttcgtg aagtcctgaa ttctctgat gtatggagtg cttacaaaga 360
 ccagaagcac gaccttttcc ttccatccaa tgcacaatct tctgctgctg gaattgctgg 420
 gctcattgag agctcatcat c 441

<210> 42294

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-C1

<400> 42294

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 gagctaccct ctgagaaggt aaatcaaaag tacaagagcg ccagcgggtcc aagctatcag 180
 aagaggctgt ggaggaagct gaagacgccg tctctgcaaa gcgcctctcg gagcttgagg 240
 agaaggatcat tgactcctg aaaaaacccg catcaatgcc tgctgataag gaggagggttc 300
 tgcaggctgc tgtctccgc gttagtgcac tggaagagga gcttgcagct acaaagaaga 360
 ccttgcagga gactcttgag cgtcagttgg agatcgttgc atacattgag aagaagaaga 420
 aaagcaagcg tttctttcgt tggtagaagc aaacagcagt 460

<210> 42295

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-C10

<400> 42295

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 acagatgcat ggaagcaact ccaagtttgg cttgtgcaaa taaatgtgta ttttgttgga 180
 gacatcacac aaatcctgtt ggaaagagct ggaaatggaa gatggatgac cctcttgaca 240
 ttgtgaatgc tgcaattgac cagcatacta aaatgggttaa gcaaataaaa ggcgtaccaa 300
 gagtaaagcc agaaaaactt gac 323

<210> 42296
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-C11

<400> 42296

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 tatgggaaaa gcgttgaggc tgaggaggcg tacaggaacg gttgccagta ccttcttggg 120
 cagtttgggc ctccgttcgc cacgctaagg cttgatttct ccccaaccgt gcctttgccg 180
 tctctgtctt cgaaacctcc gctccgagat attaggaaga acctcgagga catgatttcg 240
 tcccgcgcgt cggctttgaa caaggcgacc tcgtcggcag acgcccagct ggacctgtt 300
 ccagataagc ttctggggga gatgcagggg ctgttggtgaa aagtcgacag gatgcttacc 360
 aggcctcatg ctaatgctcc ttagccccgc caatctggag ggttgtggct gtaacctatt 420
 cggtagttag gcaactttgg tgtc 444

<210> 42297
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-C12

<400> 42297

gcaaacctgc agtcatctcc tccaccacca ccaccaagct caacaacagc cagctcgcga 60
 aaataatgaa gagccgcagc atggcatcat cggccgcgct cttggtgcta gccctcgcgc 120
 tagtggcggc caccgccccca caggtagcgg aggcaaagaa gaagagagcg gcggagagcg 180
 gcgaggcggc ggaagcgaag aagatccagg acgacttctg ctgcagcgtg tgcgaaggca 240
 agaaggggac ggacctggtc gtgtgcaagg agtcctgcgc tctctcccag cagtccaacc 300
 tgggtgctgta cggcaggatc cagtgcagg gcaagtgcac cgagcagaaa ggcatcacgg 360
 cgccggccat gaaagtctgc caagaggagt gcgacaa 397

<210> 42298
 <211> 416

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-009-Q1-K1-B1

 <400> 42298

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 ataagataca gaacctagct agctacttta atttatacaa ggaattacag ttttcagttc 120
 aagcattcac ctcaaaattg gcttgacaaa gttgacaacc cgaggggagg gcgaaaaaat 180
 agccccacag cttgtcgaaa agccaacatc atgggcaatg atgcaaccaa agaaaaaaaa 240
 agagtattcc ccatgccctt cacacaaatc gatcagccca tatccatctt tagtcgagga 300
 ttgtacaaac aatatctcgg gaagagtcag atatcctagc agcctcagcg atcctgagag 360
 ccatgatgga tttgtatgct gcgagctctg cgtttgtcat gagagactgg gctctg 416

<210> 42299
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-008-Q1-K1-H3

 <400> 42299

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 tggttatcca atgagatcgc gacatcttat tacaagatca cagttgaaat gcggaaagct 120
 gagagaacta agacgatggg ggatcatcag tcctggccat gtgtactgac aacatgttgc 180
 aaaaaaaaaat acaggtcgct ggcaaataaa tctgggcac tttcatcat cgtcaatgta 240
 gcgctgctcg ttggctagcc tggcgcgctc aagcatcttg tcgaggctct ccttgagctt 300
 ctcatcaaac tttaccagct ggttcacaaa cactgcaccg agacccatcc ccaacaaatg 360
 ctcccatgga tggcgcatgt aggggagctt gcggagagcg tttgagtaca 410

<210> 42300
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-008-Q1-K1-H5

<400> 42300

ggaattgggt ccaccattgc tcaaggtatg gcgtttggca cgggtagtgc catggcacac 60
agggctgttg actctgtatt aggtccccgg accatccagc atgagactct tgccacagaa 120
gctcctgctg ctgccctgc tgctccagcg atgaatgctg atgcttgcag cttccattct 180
aaggctttcc aagattgtct caacaactat ggcagcgaga tcagcaagtgc ccagtactac 240
ctacacatgc tgaacgagtg ccgacgcggg ggtgtgtctg tctaagctgc ctctgggatt 300
attcatggat tttctttccg gatgggggta tctcattaat aaggcaccgg ga 352

<210> 42301

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-H6

<400> 42301

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cgggtcaagtc tggaggacga gctgctcaca atgcgtcgtc ggcattgaga gaagtcattg 120
gctcctacac aaatgcaatc cgccgtcgtc tacgtctcga ccaacggtag gaacaatgcc 180
ctgacgtgcg ccagatcacc cactgcgatg tgtgcgaacc cctgtgtccg gccggggtcg 240
cgctgtctag gcgcatgccc cagccattac cacgaagacg cctgccctca cttttgtctg 300
catgccgcca tgcattgtact caatgaagaa aaaatatcat gcct 344

<210> 42302

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-H7

<400> 42302

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gcctgcagga atttgtggag gcaagacgaa cagctgcact taataatgtt ctttcttgta 120
tgtggctctc ggtaccacct cttgagttaa aaggagtatc tgctgatgca cttaatgcaa 180
atgctggctt tgttactttc gttgtttacc ctccgcatgt tgagggtaaa aagctagata 240

gaacagtttg gaatttggtg acatttcatg cttatgtaag ctatcatgta aagtgttctg 300
aaggattcat gcataccagg atgaggcgca gggttgagtc gctgatccag gcgttggacc 360
gggcgaagtc tgatgcagag aagttgaaga aagtgttaca cggtggatct t 411

<210> 42303
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-H8

<400> 42303

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ggcgccgcca tccgagcgaa caagccaacc gaccccgctc ccaaggcaat ccgcccgcga 120
cgtaccacca ccaccgcagg agcgagatgg agatgaagag gatcctcttc gccgtcctcg 180
tcgtcatcgc cgctcggcc accgcagtgc tggcctccac cgaggccgcc gccgcggggcg 240
ccccaactgc ctccgagtcg tccgcgagg ctcccgttg cgctggcgct ggcgctgccg 300
ctggcgccgc cgctcgggg ccctccgcca gcagcggggc cgcccgc 348

<210> 42304
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-H9

<400> 42304

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tgatgctagg gatgactgga agatcatccg cgctctttct gaggttgctg gggctcagct 120
gccttatgac agcctctcag ctgtgagga ccgatcagt acggttgac caaatctagt 180
acatgtagac gagagggaga cggccgcaat ctctcgagg gttaagccgc ctgtgaagca 240
acaagtcagc tcgacaccat tcaaagctgt tgtggagaac ttctacatga ctgatgcaat 300
caccgagct tcaaagatca tggcccagtg cagtgaacc ttgctgaaga agtgaggttt 360
tgcacaccat caagctaat 379

<210> 42305

<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-009-Q1-K1-A1

<400> 42305

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tttctgtttc agggtaggaa atgatgtccg agagtgaaga gcatggctcg ctccctagaca 120
agatcaacga caagatcaac gagaagatcc atgagtataa gcactcgtcg tcgtcctcct 180
cctcttcgga ctgagacgat gacaagaagc ccaagaagtc taagaagaag aagctttttg 240
gaagaaaaca tccattgcat catgtcctcg gaggaggcaa agccgccgac cttgtgctgt 300
ggaggaacaa acaggcatct gggagcatct tggtaggggt gaccgtgatc tggttactgt 360
tcgagggcat cggctaccac ctccctacct tcctttgcc a cgcactaatt gngttttotca 420
ccatctgggt catctgggtcc aatgct 446

<210> 42306
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-A10

<400> 42306

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ctcgttccgt ctccctcgtc gaggcgcccc ttctcctcct ctccctcctc gtctccgccg 120
cggccagtgc gcggaccgtg ggcgacaccg tgcaggacgc gtgcagcaag acccagttcc 180
ccaagatctg cgtggacagc ctgcgcccca agccggagag ccagaaggcg acgccgcgca 240
agctggcgga gctgttcgtg aacatc 266

<210> 42307
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-A11

<400> 42307

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gataaatgga gttaagctta ttggtatcaa taaccgaagc cttgagacat ttgttgttga 120
tacttcgaac accaagatgt tgctcgagaa acatggggat atcatcaagg agaaggggaat 180
tttggttgtt ggtgaatcac gtctgtttac tccggatgat gttgcttatg ttcaaaatgc 240
tggcgtttct gctgttttgg ttggggaatt cct 273

<210> 42308
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-A12

<400> 42308

ccaagctcaa caacagccag ctgcgcaaaa taatgaagag ccgcagcatg gcatcatcgg 60
ccgcgctctt ggtgctagcc ctgcgctagc tggcggccac cgccccacag gtagcggagg 120
caaagaagaa gagagcggcg gagagcggcg aggcggcgga ggcgaagaag atccaggacg 180
acttctgctc gacgctgtgc gagggcaaga aggggacgga cctggtcgtg tgcaaggagt 240
cctgcgc 247

<210> 42309
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-A5

<400> 42309

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cggctacggg gccatcagcg tggtcagccg cctcctcatc ccggtcccgt tcgaccagcc 120
cccgccggag aacgaccacg tgggtgctcat cggagactgg tacaccaagg accacgaggt 180
gctagcccgc cagatcgacg ccggcaaggg cgtgggccgt cccgcgggcg tgctcatcaa 240
cggcaagggc ggcaaggacc tggaggccgc gcctgccttc accttcgagg ccggcaagac 300
gtaccgtctc cgcgtctgca acaccggtat caaggcgtcg ctcaacttcc gcatccaggg 360
ccactacatg aagctggctg agctggaggg ctccacacc ctgcagaaca cgtacgactc 420

gctcgacgtc cacgtcggcc act

443

<210> 42310

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-009-Q1-K1-A6

<400> 42310

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aaagcttgat cttagagacg acaagcagct ctttgtggac catcctgggtg ctgtccctat 120

cactactgct cacggagagg agctaataaa gcaaatatgc gtcctatact acatcgaatg 180

catctcgaag acccaactaa acgtgaaggg cgtcttccat gcggcgataa aggttgtgct 240

gcagccgctt aaggcgaaga agaagaaaaa ggtgcagatg gggtcgtgct ccattttgtg 300

atctaatacat cggtagatga agaaacatgg gcgaacgtgc catggcttta tcatcgctgc 360

gtcttgcttc agtggaaagg catgaatggc cccaccnc tctaggttta ctggcggctc 420

ggctgcagcg agttctcatc tctctgtcga ggcat 455

<210> 42311

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-A7

<400> 42311

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gcgtgccaat tatactcgca ggggcagagc tagatcttat agacgacgag catctctttg 120

tggctcattc tgggtgctgc cttatcacta ctgctcacgg agaggagcta ataaagcaaa 180

tatgcgctcc atactacatc gaatgcatct cgaagacca actaaacgtg atgggcgtct 240

tccatgcacg gataaagggt gtgctgcaga cgactaaggc gaataagaat aaacacgtca 300

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gtgccatata ttataatct cagcgactct cttaaccata acggattta 409

<210> 42312
 <211> 462
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-A8

<400> 42312

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 ccaccactgc tgagcgggaa attgtcaggg acatgaagga gaagctcgcc tacattgccc 120
 tggactacga ccaggagatg gagactgcca agaccagctc ttctgttgag aagagctacg 180
 agctgcctga cggacaggtc atcaccattg gtgctgagcg cttccgctgc cctgaggtcc 240
 tcttcagcc atccttcatt gggatggaag ctgctggtat ccacgagacc acctacaact 300
 ccatcatgaa gtgcgacgtg gatattagga aggatctgta tggcaacatc gtcctctccg 360
 gtggtaccac tatgttcctt ggcattgctg acaggatgag caaggaaatc accgccctgg 420
 ctctagcag catgaagatc aagggtggtg ctctccaga aa 462

<210> 42313
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-H11

<400> 42313

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 ttcagcgagc gcctggggac cgcggcggcg gcgtcccagt gcgccgccga gccgagtagc 120
 ccggtgcagg accctgtcac ccatctctac acatccacga cgagcctaaa cgacgagggg 180
 cccaagtacg acctcgagct atccaagaaa gaccaccgga agcatggggtt ctgggggctt 240
 gtggctcaga aagccaaagt catgctggac gaaaacggca caccacgccc tcaggctaag 300
 acctctgaat cgctctggtc ctacgatcgg gtccaaggat cgttgggagg caggctggac 360
 atcagaggga agatcaagga cgttcttcag caggagggcc ttgctgtggt ggccgacagc 420
 acgacgcccg gcaccag 437

<210> 42314

<211> 236 .
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-A9

<400> 42314

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gactatataa cttaacaaga aaactacctt tatacttctt tttctggatt ttatgggggt 120
ctatcaagat tgggtggtggg cattaaacaa cttttacctg atcaagaagc ttaatctttt 180
tgtgctaaaa attaaggcaa agggaattcc atctctggtg gcatggatat ccattc 236

<210> 42315
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-F8

<400> 42315

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ggctgggagg cgctcgacac cgttggccat cctcctcacc ggggccttcg tccccatctc 120
cttcgtcggt cgtccaatct ttgacacgca cagatccgct gccgtggagc tcttcaactt 180
ctccgccgac ggatccttcg acgagttaaa gcaagaggac ccctgtgcat taaagaataa 240
gcacacaata gatcttccta aacactgaac attgccttat atgcttataa tatcaccaac 300
cttacctttt aagttataga atgtttactt tgtatggtac actccgtata attatatatg 360
tacgcctggt tatttctttt ggagatagtt tgtgtacggt agcagttcag gtctaaat 418

<210> 42316
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-F9

<400> 42316

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agcaacagca ggccagggca ggcaggcgca agaaacttcc cccacctcca cctcctcctc 120

gccttccgcc tttatttctt ctgctctcct tectcggtcc tatctcctct cctgctccgc 180
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ttcgggggttt gaggcgagtg atctaggcca tggcggccac caagaaaacc aagatcgtct 300
tggcccagcc ggcggttggg gctccgacgt cgcgggtgcc gttcttttct cgcgcgccc 360
gcccgggtccg aggcgcggg gacgaggcgg cgcac 395

<210> 42317
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-G1

<400> 42317

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gcgctccttt tgacaagaaa tcatttgtgt cttacatcaa aaaatacatc aagaatctca 120
ctgctgtggt ggagccagag aaagcggatg agttcaaaaa ggggtgtcgag ggtgcaacca 180
agtttctcct tagcaagctg aaggacctcc aattttttgt tggtagtcc atgaaggatg 240
atgcgtctgt ggtattcgcc tattacaagg atggtgccac taatccgaca ttcctctatt 300
tctctcatgg tcttaaggag atcaagtgt aagcgtgagg cgaaattagt tacccatgtt 360
gggtactatc tatgtactat tattatatcc aaaacta 397

<210> 42318
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-G10

<400> 42318

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agtcagaggc aatggcggag gtggctgccg cactccgggc tgtcggggag gggttcctgc 120
gtatggagga gcgcaggctg gagctatcgc tgcagatgga gaaggaacgg atggaatcgg 180
agatgaaacg caccagacg atgctggacg cccagcagct cttcctcgag gccttcctcg 240
gtaagcaact gcagcacaag aaggcctatg tctccccttc ctctgccgca atggaagagg 300

actgatcgat cgatgtatcc cggctgctct ctgtcaaact tgtgttc

347

<210> 42319

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-G11

<400> 42319

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tggttctgtg cctgctgctg gcgaccgggc cgcaggaggc cgccggcgcc gaggggatgc 120

tgtcgtatga taagttgctc agctgcaagg tgctgggcaa ctgcgacaag aacagggggcc 180

ccggggccac ccgcccgggg aagcccgtaa acaagtacac ccgcggtgc agcccgtga 240

cccggtgccg cggcgggtga tcatatctcc ggtgggttctg gtcgatgtgc gcgcaacgtc 300

acgcgcgtgc aggcaccagc gccggccggc ccctgagggc gggggcaaag ggggcaaccg 360

ccctggtggg cctcgtaatc tggaggaccc caattccgtg tacacattag tatactgcat 420

atgagttttt gcatgtgtat tacgtgatt 449

<210> 42320

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-G2

<400> 42320

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acgaacggcc tgcgcatcaa gtcgtacgag gactccaagt cgtcgctcaa ggccagcaag 180

ttcctgtacg agggcatcac catggacaat gtctcctacc ccatcatcat cgaccagaag 240

tactgcccc acaacatctg cgtcaagtcc ggcgcctcca aggtggccgt caacgacgtc 300

gtcttcaaga acatccacgg cacctcaac acgccggagg ccatcacgt caactgcgcc 360

aacaacctgc catgccagg cgtgcagctc gtcaacgtcg acatcaagta caatggatcc 420

ggcaacaag 429

<210> 42321
 <211> 461
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-008-Q1-K1-G5

 <400> 42321

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 gtgtttccgg ggccatccac cactggaagc tacatcgtgg ttcttattca tgagccacgt 120
 tcacggcttt cgtttgcacg accgggagat gacaagtgga cctcggttgg acaaggatc 180
 ggatataaag actgcacata tgtggatggg cttttgtata cagtggattg gactggagaa 240
 attgatgctt ttgattttac cgcacccct gttaaaatga cagtaattat ggacagtctg 300
 aagtatcctc catgtgaaaa cctgtacatt attcaggctc catggggtga tctgctgcat 360
 gtttggagga ctattgacgt tccacccaat gctccatcgt gggaccctga aaagtgcctg 420
 gcagaaaccg taaaaataca agtgcataaa gtggacttgg a 461

<210> 42322
 <211> 230
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-008-Q1-K1-G6

 <400> 42322

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 gcggcttgac cgcgtattat gacatctgga taacaagcga ggccttggca aactttatga 120
 tgtaaacagc aagcaacgtt gttcatccat tgggatgcag ttacatggt gaataatatt 180
 cactgcaatt tctcttcaaa tgaaccaaag aggggtaata gttggtgctc 230

<210> 42323
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-008-Q1-K1-G7

 <400> 42323

gccccaaatgg cacaattagg aacattataa atggcactgt gttcagagag cctattatgt 60
gcaaaaacgt tccaagactt gttccaggat ggactaagcc catctgcatt ggaaggcatg 120
ccttcggtga tcaataccga gctaccgatg cagttctgaa ggggcctggg aagctgaagc 180
tagtttttga gggaaaagaa gaacagattg atctggaggt attcaacttc actggtgctg 240
gaggagttgc cttgtctatg tacaacaccg acgagtcaat ccgagctttt gctgaagctt 300
ctatgacaac tgcttatgag aagaaatggc cactctacct tagcaccaaa aacacaatcc 360
tgaaaaaata tgatggcagg tttaaggaca t 391

<210> 42324

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-G9

<400> 42324

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gaacaagctt gttgctcttg ttcaccgcc taatgaatcc tttttccttg ctccccaggc 120
agataaagtt actatttgt atccaatgag attccaggac tccattgata ttgttttagc 180
aacttccttc ctgcaggaat ttgtggaggc aagacgaaca gctgcactta ataatgttcc 240
ttcttgtatg tggctcctcg taccacctct tgagttaaaa ggagtatctg ctgatgcaact 300
taatgcaa at gctggctttg ttactttcgt tgtttaccct cggcatgttg agggtaaaaa 360
gctagataga acagtttga atttgttgac atttcatgct tatgtaagct atcatgtaaa 420
gtgttctgaa 430

<210> 42325

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-H1

<400> 42325

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tgggttagtc atttctcccg gccaggaaga tgacaagaag ccccttgtgc aggatgagcc 120

aatagtagtg tctcccatcc agaagaataa caataagtat gttgatcagg agaagtcctt 180
 tcagcaggag aagcaaatca tctctcccg acagaaagat gataagaaga gcagcaagggt 240
 gggacctgac tcagcatgta atcatgtgca acagaagaaa gtgaaggcta ctgtatctac 300
 cggccgtgct gctaatactc atgtttctag ttccaggcct cgctctgttt ttatcccca 360
 agcacattgg ccagccagc caattgttga tcggtttgcg catatacctg agcacctgat 420

<210> 42326
 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-008-Q1-K1-H10

<400> 42326

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 cgtcctctag cgaccgacca acgcgcgag cgaagatgtc gtggcagacg tacgtggacg 120
 agcacctgat gtgcgagatc gagggccacc acctcacgtc ggcggccatc gtcggccacg 180
 acggcgccac ctgggctcag agcacccggt tccccgagtt caagcccag gagatggctg 240
 ccatcatgaa ggatttcgac gagccggggc acctcgcccc gaccggcctg atcctgggag 300
 gcaccaagta catggtcatc caaggcgaac ctggagctgt catccgtggc aagaaggcat 360
 ccgngggcat cactgtgaag aanacagggc agtcactcat cattggcatc tacgacgagc 420
 cccatgactc cgggca 436

<210> 42327
 <211> 434
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-008-Q1-K1-F7

<400> 42327

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 accacagctt ggtcattgag caagaaacct tcccacatga tgctttggag gctactgcat 120
 ggactgaaga tggacttatc atggctgctc gccacaagaa gtacaaacac atccaggggtg 180

tccaattcca cccggagagc atcatcacc c tgaaggcaa gaaaatcatc ctcaactttg 240
 tcagattcat tgaggaactg gagaagcagc gttcgtaggg gaggtagacg cgacaggtgg 300
 tttcatttca tagatcagac ggaagcagag acaaggcgct taaagctgcg ccaggttccg 360
 gggctggcag ttgaagcata gctaggaaac agctntccct ctcttaatnc gtttgtgtcg 420
 tggtgacata atct 434

<210> 42328
 <211> 477
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-008-Q1-K1-E4

<400> 42328

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 tttgccaccg atgaaccctc cgccggggcc agaggcatca ccgtcgaaac caccatctac 120
 atcgccagca gcatcaccat cggaatcacc accagcagca tcgccaccag aatcgccgctc 180
 gacaccacca ccagagtccg tcgactacac cgccgacacc agcagcagca ccaccgaaat 240
 caccgtctga tccaccacca gctacgccac caaatcatc atctgatcca ccgtcgacac 300
 cagcagctac accaccggcg actccatccc catcatctta atcacgaagg atatttcaaa 360
 agcagtagta gtttagtcaa attaaatatg cgttttagga ttctagttga tatgcgtcca 420
 ttantttgtt cacatcgaat gcagcagtgt gttagctatg tagttgcata cctatca 477

<210> 42329
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-E5

<400> 42329

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 ataccgtgca ggtgggtgtg aggaaggtgc ggaataaagt ggttgggcaa ataggagatg 120
 ctttcctgac atatgaccgg gttactggtg aattcaagga tgctggtaag gccactacag 180

cagccagtgc aaaagcggca aaacagtcac gcaaagaggc atataagata ccatttcaac 240
 atgctgctca agacggtgag aatagttttg gtctctgact gcataagaaa gacatgttcc 300
 tgctgatttg atgtacctgt atcaatcaac gcaagtgaga tttcacgatt gtttctgggg 360
 a 361

<210> 42330
 <211> 454
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-008-Q1-K1-E6

<400> 42330

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 ccatgtggtc gtcgatgccg gcagacgttt ttatggttgt ggcgttgggtg ttcttggtga 120
 gcggcgcatg gtgcggctct tccaaagtcc cccagggcaa gaacatcacg gccacctatg 180
 gcaaggactg gctggacgct aaagcgacat ggtatggcaa gccgacgggt gccggtcccg 240
 atgacaacgg tggcggctgc ggttacaagg acttgaacaa gccctccttc aatagcatgg 300
 gcgcatgagg caacattccc atcttcaagg atggtctggg ttgtgggtcc tgcttcgaga 360
 tcaagtgcga taagcctgtg gagtgtcct gcaagcccgt ggttgtgcac ataacggaca 420
 ttaactttta gcctatttct gcgttcctct tttt 454

<210> 42331
 <211> 368
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-008-Q1-K1-E7

<400> 42331

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 gacatgttat gatgccatt atattattct gttgtcggcc aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaaanggg gggggccttt ttaaaggacc aaagttaact tccccgtctt tcaaaaaaaaa 300
aacctttttt aaagtgaac aaaaataaaa ttaacggccc cggttttaaa aacgtaggaa 360
tgggaaaa 368

<210> 42332
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-E9

<400> 42332

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gaggatctag taatggcaga gaggtactc atgaaacacc tcgatgcacc aggaggtgg 120
ctggcggaga agcatcggag gacgttgatg aacaagtatt gtggacggta cctgcggggac 180
aagcacctgc agcactacat tatctacggg gagacagtgc aagacagatt cgaacacaat 240
cgacgtctaa ggaatccttc aacgacctct gtccagcaag cgctacatgg gcttgcatatc 300
tgtgtgtatg gcaaacctga cgtgcggcgt ttgatgttcg aggtgtttga ctctgaacag 360
gtccagccta aagcagtctg aggatcttct ccattggtac cgatgctaga cgtgctgaat 420
gctg 424

<210> 42333
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-F1

<400> 42333

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agcgacgccc tggcgctcat cgagaagggg tcatcgctcc tctccgtgct aaagggcggc 120
tcgaaacgac gggtgctcga ggaggagggg gaaccggcgc aagccggggc tgcactcgac 180
aaggacggca tcccggagtg ggtgcccgc acgtgagcga ggtgctcaa gggcggcggc 240
ttcaagagca cactcacgcc aaatgtggtg gtggcgaagg acggcagcgg caagttcaag 300
accatcaacg aggcgctcgc cgccatgcc aagacctacg acggaagata cgtgatccaa 360

gtgaaggagg gagtgtacga agagtacgtg accatcacca agactatgaa gaacgt 416

<210> 42334

<211> 366

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-008-Q1-K1-F10

<400> 42334

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atcttgtcag aagagtttgg ttgggacaag gatctcgcca agaaaatctg gtgctttggc 120

cctgagaccc ttggacccaa catggtgggt gatatgtgta agggagtcca gtatttgaat 180

gaaatcaagg attctgtggt tgctggattc cagtgggcat caaaagaagg tgctttggcc 240

gaagaaaaca tgagagccat ttgctttgaa gtatgtgatg ttgttctgca cgctgatgct 300

atccacagag gaggtggtca aatcatccct actgccaaga gagtcttcta tgcttnccag 360

attact 366

<210> 42335

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-008-Q1-K1-F11

<400> 42335

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gcaactgcdc acgctgaagt aactgcgata agagaggctt gcaaaaagct tgggaaaatt 120

gagctgtcgg attgtgaaat ttatgcatcc tgtgagccat gcccaatgtg ttttgggtgct 180

gttcatttat cccgattaa gaggctggtg tatggagcca aggcagaagc tgcaattgcc 240

attggatttg atgatttcat tgctgatgct ctgagaggaa ctgggtacta tcagaaggcc 300

aacatggaga taaagcaggc agatggaaat ggagccatga ttgctgaaca agtatttgag 360

aagactaaag agaagttcca aatgtattga accgtggaaa atactggtgg gatganttaa 420

ca 422

<210> 42336
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-F12

<400> 42336

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 gaacacctat cttctcgtcg gatgctgcaa cgacgagcta acctaccgct acaagggcaa 120
 gaccgtcatg acccaagaag agcgatacga atccctgcgg cacttgaagt gggttgatga 180
 ggtcattcct gatgcaccgt gggttctcac acaggagttt attgataagc atcagattga 240
 ctatgttgct catgatgcgc tgccttatgc tgatactagc ggaacagcaa atgatgtcta 300
 tgaatttggt aaaaaagatg gaaaattcaa ggaaacaaaa aggacagacg gggtttctac 360
 ttcagatctc ataatgagga tcttgaagga ctattaccag tatgtcatg 409

<210> 42337
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-F4

<400> 42337

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 tatgagccta tcgcggcgta ccacttcgat ttagcaggca cggcggttcgg cgccatggcc 120
 aagaagggcg aggaggagaa gctgcgcaag gcgggcatca tcgacatgca gttccgaagg 180
 gttaagtgca agtacgactc caaggtcacc ttccaccttg aaaaggggtg cggccccaac 240
 tacctggcgc tgctggtaaa gtacgtcgat ggcgacggtg acattgtggc agtggacgtc 300
 aaggagaagg gctctgacac gtacgagccc ctgaagcact cctggggcgc catctggagg 360
 aaggacagcg a 371

<210> 42338
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-F6

<400> 42338

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gggtagccag cctttccatg ttgggctaaa ttttacacgt gcacacctga aagacacttt 120
gctctaagag agagtga aaa aattcaccac ggctttgatg atgacaatta tgaccactct 180
taacaacagt cattctacat ggttggagga atagaggagg tcatcgccaa ggcagagaag 240
attgccaaagg aatctgcac ataaggggtc tacaggcaac gcaaaattta acttttggag 300
gtcaacgtga tgtgcttttt at 322

<210> 42339

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-E2

<400> 42339

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cgaggctgag acgccggggc atggtcggcg cgcagtgcg gcggccggcg gctcggttcg 120
tgcgtagctg cccagcattc ttgcccctgt tgagtcacg gctcgtcgct cgctcgcgcc 180
cccgcgcgtc gccccgcgtc cacagggtcg ccgccacggg gaggcgcaga gggaaaagga 240
agatgagctg ctttccgtgc ttccggggcg gaaagggcaa caacgacgac gccgacgcgg 300
agagcccggg cgacgcggcc ccggcgtcta acatgacgcc agccgcgatg gtgcaggcgc 360
ccgcgcgta c 371

<210> 42340

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-C8

<400> 42340

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gtagttgtag atgatgaatt ataaacacat atgactgagc tcaaagttgt ttaatcatca 120

tctgttgcca aatgaggaag acaattgggtg tcttgaagct gtgttttcga ctgtgtctaa 180
 agcgtaaata taacgtatat tgtgtcttcg cctatgctta agacattgga ctagttgatt 240
 ggtcaattta atttattaaa tgttttgatt ggtgtaata atataataag tcgtgcatgc 300
 cgcatgacta ggctttcagt ctttcactta 330

<210> 42341

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-C9

<400> 42341

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 gcgtctectct tgataccttg cctcgcgagt gctctcggtg agctactttg ttttgattta 120
 tcaggaaatc cgtttgcttc atgttatgca ggctcagatc tgattgctgg attcggcatc 180
 ttacgggctt gaatagagct aggactggga gaaaacaaca aaccgcggtt ggatcctgta 240
 tcgggttagtc cttgccttca aggttcatgt tgttttgttt tggtggtcga gcatcgcatg 300
 ttctgcttct ggttccagat ctggagaaat ttctaagtcg tcgtcgtcgt cgctggtcgg 360
 ttccggagcgg atctgaggcg acgatggctg gaggcggcgg gatctcttgt tctgcagtc 420
 tgcttcacct cgatggatga tgtctctgcg ctgat 455

<210> 42342

<211> 241

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-008-Q1-K1-D1

<400> 42342

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 ccgccgacgt accaccgcgc caacccgaga gaaagatgga gatgatcaag aggatcctca 120
 tcgccgcgct cctcgtagtc gccgtctcgg gcaccggagt gctggccttc aacgaggccg 180
 ccgccgccgg agccccaacc gtctacgagt catttggtga cggcgaagcc cccgctggcg 240

c 241

<210> 42343
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-D10

<400> 42343

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ctagccctcg cactagtggg ggtcaccgtc ccacatgtag cgtaggtaaa gaagaagaga 120
gcgcccggtta gcggcgaggt gtgggacgcg aagaacatcc aggacgactt gtgctcgacg 180
ctgtgcgagg gcaacaagga gaccgacctg gacgtgtgca aagagtgtg cgctctctac 240
gaggaatcaa cctgttgctg tactgcagga tccaacaca 279

<210> 42344
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-D11

<400> 42344

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acatgtggcg atggctaagg cgttggtggt cttggtgagc ggcgccctcgt gcggtcctcc 120
caaggtcccc ctggttaagat catcacgacc acctatggca aggactggct ggacgctaaa 180
gcgacatggt atggcaagcc gacgggccc ggtctcgacg acaacggcgg cggtatggg 240
tacaaggacg tgaacaagcc ccccttcaat agcatgggtg catgcgcaa catccccatc 300
ttcaaggatg gtctggggtg taggccctgc ttcaagatca agtgcaataa gcctgcagag 360
tgctccagca agcccatggt ggtgcacatc acggacatga actatgagcc tatcgcggtg 420
tacca 425

<210> 42345
<211> 345
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-008-Q1-K1-D2

<400> 42345

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atgtgctttt tatcctgtgt tatcaagaac ttacgtgcag gagaccctgc cctgcagaag 120
gatgtttctc tctccgtcc cccaccccca cccccaaaa taaggattcg cagtgcatt 180
ttaatttggg ttactgccct ttgaggaaga attacctttt ttgatgaggt gaaactataa 240
ccttgtaaat tctcaaaaaa atactcttct cccatgttca tagccattat gaggtgcct 300
gttcaatttn naaaaaaaaa aaaaaaaaaa aaaannnnnn nttnna 345

<210> 42346

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-D4

<400> 42346

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gcgcccgtcg tgcgggccat caccgacgcc gtcggcggca cccggatacc tccaggaggc 120
gtgcaacaag acgctgttcc ccaaggtgtg catgcacgct ctcaaggaca acccaaagtg 180
ccaggcggag acggctgtca ccccgcgccg gctggccgag ctgctcgtgt acgtgtcgga 240
cgaggtgggc atgaccgtgg ccgcctttga ccaccacgag ctcaacgcca tcaacgacga 300
cgacgttctg tacaagtga tagacacctg cttcgaggac attgaggaag acgtggcgca 360

<210> 42347

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-D6

<400> 42347

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gggggccc atcgtcgcc acgacggcg cacctgggct cagagcaccg cgttccccga 120
gttcaagccc gaggagatgg ctgccatcat gaaggatttc gacgagccgg ggcacctcgc 180

cccgaccggc ctgatcctgg gaggcaccaa gtacatggtc atccaaggcg aacctggagc 240
 tgtcatccgt ggcaagaagg gatccggggg catcactgtg aagaaaacag ggcagtcact 300
 catcattggc atctacgacg agcccatgac tcccgggcag tgcaacctgg tgggtggaaag 360
 gctgggcgac tacctgctcg aacaggggat gtaacaacaa ccccttcccc tggaatgcat 420
 gttgatgatg 430

<210> 42348
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-D7

<400> 42348

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 agctgttcac ctcccgcgc cccctcgcg cgtcaaggcc tccggaaccg gtcgcaagcg 120
 gcgtaggacc cccgccgcta cagagccctc gtccgtcgca cttcgccgcc gcgtcggagt 180
 catccagctc gtcgacgcct ggcggggaga tccccagtgc gaggggaacc tccacgacgg 240
 gaccttcctt cctgatacag gaaggcaggg ttcatgagcg gcggcacgcc tgcagcaagc 300
 agtagcctgc gggcagcact ctcatactgt gtgaggcaag tccgtgccta tgactaccac 360
 cactacctct gccttctcca cctggccccg gccatgcgca aggccgcgtt cacctttcgc 420
 gccttcaaca tcgagacagc aagggccatg gatgt 455

<210> 42349
 <211> 142
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-D8

<400> 42349

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 gaccccagcg tatagtataa cgctctcccc aaactccaag agggaagaca actccaaagt 120
 acaatgcaat cttgattctg tc 142

<210> 42350

<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-D9

<400> 42350

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agcgtgcata tatatatcc tgccaagata aaggtaatgg agtcgtcacg caggttccag 120
ccggccgtca tctgtcttct cctgctcatt gtgtccaccg atatggcaca ggcaagggaa 180
tgcgagaagt acagtgagcg atttggtggg gcatgcatga tcgcagacaa ctgcgccaat 240
gtgtgccgcg gtgagggctt cttggccggc aggtgcagca cttccgccg ccgctgcac 300
tgcactaggc agtgctaaac aagatcgctc gatcgctcgc catgcatcga caacctattc 360
ttaataacgt tcattatctc gttcttattt atgacgaatg tcatgtatgt tctggtgact 420
gtcatgtata ttctgatgac tgtcatgt 448

<210> 42351
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-E1

<400> 42351

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atcaaacata tcttgttgga gttaaattatt atttatagag aagctacgcc agagcgacaa 120
tagaactggt agtatggttg gtgtttgtat atactatcgt cgcgccgcct cctcctccgt 180
catcgccga cccaccgtc caacggcacg gcggccggcc gcgacgacgt caatgcatgg 240
tgtgcgatcg agccaggcca gctgcgtgcc ccctgcccag ccagccagca ggcagatcag 300
accgccggcc gccgccttgg cgctcagttc atgctgcggg cgcagcgcgt gatggcggag 360
cagccgcggc ggtagggggt gg 382

<210> 42352
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-E10

<400> 42352

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ccctgaccgt caacagagga agacgaggat gtcgggatcc aaggtgtaca ccctcgagga 120
ggaggctaag cacaacacca aggacgactg ctggctcgtc atcggcggca aggtgtacaa 180
tgtgaccaag tttctggagg atcaccctgg aggcgatgat gttctgctgt cttccactgc 240
caaggatgct accgatgatt tcgaagatgt ggggcacagc agcactgccc gtgcaatgat 300
ggacgagtac ttagtgggtg agattgatgc agccacgata cccaccaagg tgaagtacac 360
gccccccaag cagccgcatt acaaccagga c 391

<210> 42353

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-B4

<400> 42353

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gccgtcatcc aaggtgatca tcaagttcct gacggctcatg cagcgccatg gctacattgg 120
tgagttcgag tacgtggatg accacagagc tgggaagatc gtgggtggagc tgaatggaag 180
actgaataaa tgtggtgtta ttagccacag ttttgatgta ggtgttaagg agatcgaggg 240
atggacggcg aggcttcttc catctcgcca gtttggttac atcgtcctaa caacttctgc 300
tggaattatg gaccatgagg agggccgccc taagaatgtt ggtggcaagg ttctaggttt 360
cttttattga aaatgtgttt ttttgagcca cagatgcgtt caagaac 407

<210> 42354

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-B5

<400> 42354

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agggcggaact taaatggata ccttgcatcac cacactgggc agccccctgga taagatcaac 120
 gtagatactg accgtgacta cttcatgagc gcgaaagaag caaaggagta tggccttatt 180
 gatggagtaa tcatgaatcc cctcaaggcc cttcaaccac ttccagcttc cagttagtca 240
 tgaagtgtgc tagaactccg tcaaacattt ttgttgatc aatgtgtatg ttggaagccc 300
 tggctacgta atattctacg tccaaatgca tcaaagattg tacaaaacaa gatatgcggg 360
 taggatatcc atccttggtg atggatattg gaactaaact aacctaacc ttagaggttaa 420
 attgtcaact ctatttttct aagg 444

<210> 42355

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-B6

<400> 42355

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 cttgcacttg acggtgccac cgccgcgaga cggcgcgagg cctcggcgcc tgtggcggtg 180
 ccggccgcgc cgtggctgaa gaaggcggcg gtcgggtgcc agcgagccgt cggtgccgct 240
 gttgccgaga agaaggatgc gccggtatcg gttgcgcagg agagaagcgg cgacgggggc 300
 gcggcgccgc agctcacctg cgtgatgaag ttccggcggg cgtcagtggc ctccggccgag 360
 cggtatgcggg aggtggcaga cctcaccctc agcttccccg aggagcacc cgtcgtcgtg 420
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<210> 42356

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-008-Q1-K1-B7

<400> 42356

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 cgtgatggac aaatctacgg atgtcgttga cgcgattgct aggctgtcct acttctacaa 120

gcacgagagt tgtgggcagt gcacgccttg ccgagagggc acaccctggc tctggatgat 180
catggagagg ctcaagggtg gtgacgcgaa gctggaggaa attgacatgc ttcagaggt 240
cacgaagcaa atcgaagggc atactatctg tgcgcttggg gatgctgagg catggcctgt 300
gcaggggctt atcaggcact tcaggccaga gttggagcgg aggatccgag agcgagcttg 360
aaaggagctg gtggcggctt ctgcataatg tgccagccat gttgcctgt actaggttnc 420
tgatctcttt ctaccgaaat atacaaactg at 452

<210> 42357
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-B8

<400> 42357

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gggacattgt tccgactagc tcacccctg aaaggaagt ttcttttagt tcttgctcat 120
caaatgggct cttttgtcc aaagagagct ctaaacagca aactagcatc cacaacctg 180
acaagtgtaa tggagggcat ttgcatgtat cagatgaaac attttctgaa gctgctccta 240
agacacataa atcagcagag gaccatgatg atagatccaa acctccactt ataagaggtc 300
gatttagagt tatacctggg catgttgact caaaggctca accacctggc ctacagaagt 360
gtcacagcat gcagacaatt tctgccttc catcattaag tataccctct tccgcagaaa 420
gtgcatc 427

<210> 42358
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-B9

<400> 42358

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cgcccgcttc aacgccaccc caatggccca gagcacgagg atggtggcgc tggccctggt 120
ggtcctcctg gtggcggcga cggcgctcgt gccacggcc accgcgtacg gctgctacga 180

cgactgctac gagcgggtgcg ccaacggcaa gaaggacgac cccgcctgca ccaagatgtg 240
 caaccaggcg tgcggcagca ccgacaaggg cgccgccgcc ggcgcgccgg cttgatcgac 300
 ccgggcttca tcggcgcgcg ggctcagctc gatatcagca tcatatacaa tcgctgctcc 360
 gtcgctcacg tcagcccatg catgac 387

<210> 42359
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-008-Q1-K1-C1

<400> 42359

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 tctcctggcg gggatgctgc tcgtcgggct cgccgtgggc tccgaggagg aggaggacgg 120
 cggcggcaaa aagaagcccc acgtcaacca cggcaagttt aaggcggagc cgtggacgga 180
 cgggcacgcy acgtactacg gcggggcgga cgggttaact gacaccacgg acggcggcg 240
 gtgaggctac aaggcgagc tggggaaaga ctacggcacc ctgacggcgg ccgtgggccc 300
 gtcgctgtac accaacggca ccgggtgcyg cgcgctgctat gagctcaagg gcccacagg 360
 caccgtggtg gtgacggcca ccaacgaggg cccgccgctc gtgagcgggc agaaaggcga 420
 gca 423

<210> 42360
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-C10

<400> 42360

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 ggtacaagga ccatggtaat tggatcgaga ttctacgct ggataacctg gtcacaccg 120
 gcaagggaaa ccttgacggg cagggcccag ccgtgtggag caagaactcc tgcaccaaga 180
 agtacgactg caagatcctt cccaactcgc tggatgatga cttcgtgaac aacggggagg 240

tgtccgggggt cacgctgctc aactccaagt tcttccacat gaacatgtac cgggtgcaagg 300
 acatgctaata caaggacgtg accgtgacgg cgccccgggga cagccccaac acggatggga 360
 tccacatggg cgactcatcc gggatcacga tcaccaacac cgtcattggc g 411

<210> 42361
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-C11

<400> 42361

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 gatggtcgtg ggcgccgtcc ttgcggcgct cgtcgccggc gggtcgtgcg ggcccccgaa 120
 ggtgccaccc ggcccccaaca tcaccaccaa ctacaacggc aagtgggtca ccgctagggc 180
 cacctggtac ggtcagccca acggtgccgg cgctcctgac aacggcggtg cgtgcgggat 240
 caagaacgtg aacctgccac cctacagcgg catgacggcg tgcggcaacg tccccatctt 300
 caaggacggc aagggctgcg gctcatgcta cgaggtgaga tgcaaggaaa aacctgagtg 360
 ctccgggcaat ccagtcacgg tgtacatcac tgacatgaac ta 402

<210> 42362
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-C12

<400> 42362

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 ggtgttcttg gtgagcggcg catggtgcgg tcctcccaaa gtccccccag gcaagaacat 120
 cacggccacc tatggaaagg actggctgaa ccctaaacca acatggattg gaaggccacc 180
 aggtcccggg cccaacaata ccggggggcg ttgcgggttc aaggacgtga acaagcccc 240
 cttcaatagc atgggcgcat gcggcaacat cccca 275

<210> 42363
 <211> 401
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-C3

<400> 42363

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tgacagattc catgatctgt ttccagcgaa aacaaaggtc aagtgttttt ctgatgctgg 120
atattttttc gatgggaagg atatctccgg gaactttttac gctaggtcaa tctataagag 180
cgttgtgaat ctacatggat cagccaaaaa tttaccagct tcatgtacct caaagccaaa 240
gcaatcacct gagctgtgta tgttcccaca gtatgttgct ccgacaatgc gcacaccatt 300
gttcatactt aatgcagcct acgattcgtg gcaggccaag aacgtcctag cacctagtcc 360
agctgatccg aagaagactt gggcccaatg caagcttgac a 401

<210> 42364

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-C6

<400> 42364

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cgggtactacc tcggggagca gttctacatc aacgtcatct cgccggcgcc ggccctttgc 120
caacagtaca acatgccccca caacccccctt cgcttcggca agggcctggg gcttccccctt 180
ccgccattct acgcccccg cgcgtaaaaa ccaccaaggc gccgctttca cctcgtgttc 240
tgaccattca gtctaactaa tccattcctg tgctgctcgg cgaaataaaa tcatcaaaaa 300
gaacaaagac caaggaagcc tatggaaggg agaagggacc tttggtgggg gtgagccaaa 360
tgagaacgca cggatatatc tattgatgta atcttg 396

<210> 42365

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-008-Q1-K1-B2

<400> 42365

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gctggagagcg gacgccggca gagacgcana gggcagaccg tgcctctctt cactgtcca 120
gtgatccagt ctctccggc ctccgcggcc gtgggtgcac ggagcctgac agccgatcag 180
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gagccagccg ccagagcgga ggtatcctgt tgccggcttg ccgctgttgg atctagcggc 300
caggagggcg atttggtgcc gttgccgtac tgccgtgaac caagagtgc ttgctgtggc 360
gctcggcgat ggggcccata ttgccataca ctataagc 398

<210> 42366
<211> 468
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-007-Q1-K1-H7
<400> 42366

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tcttccagcc ttccttcatt ggtatggaag ctctggcat ccatgagacc acctacaact 120
ccatcatgaa gtgcgatgac gacatcagga aggacttgta tggtaacatt gtgctcagtg 180
gtggcagcag catgttccct ggtattgcg accgtatgag caaggagatc actgcccttg 240
cgccgagcag catgaaaatc aagggtggtg caccgcctga gaggaaatac agtgtctgga 300
taggaggatc catccttgcc tccctgagca ccttccaaca gatgtggatc tcaaaggctg 360
agtatgacga gtcatgacct gngattgttc atcggaagtg cttctaagct ctgggtcccn 420
cttcggctcc catttaatta ttccttgagt gtttttcata taagctac 468

<210> 42367
<211> 424
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-007-Q1-K1-H9
<400> 42367

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attcccagtt acaacatddd cttccaatca gcttctgcta ctctacaaaa gattggacaa 120
 gaaaaagatt gctgatgttc tcacaatgat ggaaaaggag gatgtgaaac catctatctt 180
 tacttacaag gtccttgtag acgccaaggg aatgggttga gatgtagaag ctatggagaa 240
 agtgggttga tcaatgggtga aagatggcat tgagccagat ctcacgttta atgctacaat 300
 tgccagacag tacatattda atgggtcagcg tgataaagca gagacacttt tggagtcaat 360
 ggagggtgat gatatccaga aaaaccgtgc tgcttgagcgt ttctattacc tttatatgct 420
 tttd 424

<210> 42368
 <211> 288
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-008-Q1-K1-A1
 <400> 42368

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 catgggtgggc gtgggtgcct ttcttgcatc tcttcggggg ggtatgttgg gcccccaaag 120
 tggcggccgg ttccaacatt atcaccaact actaacggga gtggcttacc gccagggcca 180
 cctggtacgg tcagaccaac ggtgcggggc ctcctgacaa cagcgggtgcg tgcgggatca 240
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<210> 42369
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-008-Q1-K1-A11
 <400> 42369

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 tcccgtgtca ggcggaagtt caagggatgc accttgatgc ctaacattgg atatggctct 180
 gacaagaaga ccaggcacta tcttcccaac aagttdaaga agtttgtcgt gcacaatgtt 240
 tctgagctgg agttgcttat gatgcacaac aggacatact gtgctgaaat cgcacacaac 300

gtgtccacta agaagcgcaa ggaaatcgtg gagcgagctg ctcagcttga cattgtggtc 360
 accaataagc tngcccgctc cgcagccag gaagatgagt 400

<210> 42370
 <211> 392
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-008-Q1-K1-A12

<400> 42370

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 gttgctggct tgtaataggt gggctagggg ttatctagag atgacaaggc cctcaagttg 180
 gctttccagc actggatcga agcgatgagt acaaacgggc agtggggatt ggtgggtttt 240
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 atactttcag cattcaatng tagatagaat tc 392

<210> 42371
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-A2

<400> 42371

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 aatgagatca taggaacaac tactgaagaa atggtgatgc gagccaaca agcttcggga 120
 taattacatc attcagtcaa aacttatgcg atgcaaaagc cttgcgcgct gatgcattct 180
 tttgagcact ttgctggtgt agaggagatg ttggtattct ttcattctgt catccttctc 240
 tctttatagt gtacgggcag atcaacaagt ggactgtaga gagcacacga tttacatgta 300
 cag 303

<210> 42372

<211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-008-Q1-K1-A3

 <400> 42372

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 taatgtcatc gcggaagatc gcactgagca gttcttgaat gttctacaga gggagctagg 180
 tgaagttgaa aagaacaaag acgcttttctt ggcagacttc acccaggagg actatgacga 240
 cattgtgaat ggctggaacg cgaagctgaa acggagctct gccggcgagc agaggtgggg 300
 gttgttcatt gccaccaagt gatttggcct ggcagcagga gggctcttcg gaataagaat 360
 ggatgt 366

<210> 42373
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-008-Q1-K1-A7

 <400> 42373

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 aaactcaagg ttgaagacga cccaaaatat tttatgtatt tttgaaattt cttttgattc 180
 aatttgtgaa ttgtatatatt attatgttgt aataagagca tgtttctatt ctaaattcac 240
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 tcttgttatt cgatgcgatg actttttataa tgtttcattt t 341

<210> 42374
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-008-Q1-K1-B1

 <400> 42374

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 gcgaagcagc tggaggaaga agaggctctg gttgcacctg actatggcgc ggttgcagaa 180
 tacactgcac caggcgctga caactggggc ggtgaatggg gtgctggcga agctgcagct 240
 ccagctgcta gcattccagc tgctggcgca gactgggctg ctgctccagc tctctctgct 300
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 ggcg 365

<210> 42375
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-008-Q1-K1-B11
 <400> 42375

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 gtgccgcgtt tcgggtgggc ggaggtgctc gaggtcaggc agggcatgcc tgtgcccgat 240
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 cgaatgcgat gtggctatgg gcgctccata ttgaaccac tctacctct gatcattggt 360
 cgggacatta gcggtgaa 378

<210> 42376
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-008-Q1-K1-B12
 <400> 42376

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 acggccgcat cttggccgac tacaacatcc agaaggagtc cagctccac ctcgtctctc 180

gcctccgtgg tggcggcggc cagtgatctg gtctgctgat cgctccccgc catggggact 240
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 ttgctcaggc cgtctcatgc atcttcatca gtctcttgtc ttaggtcgtc gtttcttctt 360
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<210> 42377
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-H6

<400> 42377

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 ggatttgacg atgagaaagc cagtttactg gccaaaacgg ctggtgaaga ggctgcaatg 240
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 ctttagaact tattatggag atatgctagg gcagatacga ttttgtact ctacgattg 420
 ccgatgcctg tgaaaacgtt gcgctttggt tgtcaaaaa 459

<210> 42378
 <211> 430
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-007-Q1-K1-G11

<400> 42378

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 cccgcgccgt cgctccgcc accgggcgcc gggcgctcgc caccggcgaa gtgcccgcgc 120
 aagccgtcga ggactccacg ttcgtcgagg gcctgaaaaa aggtcgcccc aacatcgagc 180

ccccagcgac gccctttctc ctcatgenag gcgcgcccgc caccgccagct accatcccta 240
ccaagctcac cgtcaacttc gtccnccct acaagtccga gatcgccaac aaggagggttg 300
acatggtaat tgtaccagct acaactgggc agatgggtgt ttgcccaggc catgttgcca 360
caattgcaga gctcaagcct ggtgttctct cagtacatga aggaaacgat gtgagcaagt 420
actttgtgag 430

<210> 42379
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-007-Q1-K1-G12

<400> 42379

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tccaaaggaa ccctagccat ggcgcgcgcc tccaagaagc tcttccaggc cgccagggtcc 120
ctcgctctct ccgcttctaa ccgctccgtc ctgcgcgcgc agggccgcac cgccgcgctc 180
gccacgtca ccaacttttg caggaagacc ctccccaccg cctacttatt ctaccacaag 240
cagggatccc accatgccgc gtcgggggtgg ggagccatcg ccgncgcagt cccagctgca 300
gtttacatgc tccaggacca ggaggctcat gctgcagaga tggagcgcac cttcattgcc 360
atcaagcctg atggtgtcca aagaggcctg atttctgaga ttatgagccg atttgagaga 420
a 421

<210> 42380
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-G2

<400> 42380

ccgacacgct caagaacaag ttgaacttca ggggcttcgt gatcacggac tggcaggccg 60
tggaccgcat cacgaaccgc ccgcaccagc actactacca ctccatcaag gagacgatcc 120
acgccggcat cgacatggtg atgatccct acgactaccg ggagttcgtc gccgacctgg 180
ccaagcaggt gaagcagggg cagatcaagc tggagcgcac cgacgacgcc gtcagccgga 240

tcctccgggt caagttcgcc atg

263

<210> 42381

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-G4

<400> 42381

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tatatagata aggaaatatt ttccttaaaa atggagtaca agggattgtt gagaactgct 120

tttgttcatg atattaatat atatgatgaa tttttcttgc 160

<210> 42382

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-G5

<400> 42382

atggcgggcg cggcgcccggt gcgcgcctgg gtggtggcgc tggcgctggt gctggcggtgc 60

gcgctgctcc agccgcggcc gtccgacgcc gcggcgcatc ccgccccgca gtcgcccgtc 120

acggcggtgt cgtcggggcg cgacaagccc aagtgcgtgg ccggcgccag gaacgaccac 180

gcgtgccgcg tcggcgccgt gcacgaccgc gacagccagg aggaggaggg ctccagcgtc 240

accatcgacg cgcccgcgcg cgcgcccgcg gacgtcggcc acgacgacgg cagcgactac 300

aacgaccccg acgtgcccaa caacgaccag ctcgtcgtcg tcggccactg aaagctgccg 360

cgcgcgcgcg cgcgccgacc cgtggaccat gcgtgcatga agaagaatgc aggggggtggg 420

cctgggcctg taacctgtta atggatcgga ttctcggt 458

<210> 42383

<211> 485

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-007-Q1-K1-G6

<400> 42383

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gggtcaccaa gggctaccgc tacaagatga ggttcgtcta cgcccacttc cccatcaacg 120
cctccatcac caacagcaac accgccatcg agatcagaaa cttcctcggc gagaagaagg 180
tcaggaaggt ggacatgctt gatggcgtga ccatcctccg gtccgagaag gtcaaggatg 240
agctcatcct tgacggaaac gacgtcgagc tcgtatctcg ctccgccgnc ctcatcaacc 300
agaaatgcca tgtgaagaag aaggatatcc gaaagttttt ggacggatc taigtgagcg 360
acaagggcgt catcgaagag gagcattgag cgacagtgtg gccgaaatgc caggagatga 420
atatgaatgt cgtttgagtt gcaattttgc gagactgaat gtgaaccttc ttctcattcc 480
ttaaa 485

<210> 42384

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-G8

<400> 42384

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ctgatctccg caggccggcg tgtggcggag atccatccgt gcttgaactg actccttctt 120
tagctacaag tacctattat caaccatgtt tggacgcatg ccaaggaaga gtagtaacaa 180
taccaagtat tacgaggttc ttggtgtgtc taagaccgca agtcaggatg agcttaagaa 240
agcatacaga aaagctgcca taaaaaacca tcttgataag ggtggagacc ctgaaaagtt 300
taaagagctg tctcaagctt atgatgttct tagtgaccg gagaagaggg agatctatga 360
ccagtatgga gaagatgccc ttaatgaatg aatgggagga ggcagcagca gtgatttcca 420
tagccctttc gacatttttg agcaac 446

<210> 42385

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-G9

<400> 42385

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gggtttgttt attggagggg tgacatcggg ctctaaattt tacactaaga ttttaaggatc 120
tgattaagat caggccctat ttctattcat ttttaaactc atacaaactt cgcttcatat 180
cctgtccacg tccaaaggcg aggtgggttat ggatcaccaa ccattcactt gataaa 236

<210> 42386

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-H10

<400> 42386

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gggacggggc tcaaggagtg catcatcagc ggcctcctct ccgtcgatgg cctcaaggtc 120
cttcacatgg acaggaatga ctactacgga ggagaatctt cgtccctgaa tctaaccaag 180
ctctggaaca ggttcaaggg caacgacagc cctcccagc acctgggcgt cagcaaagag 240
tacaacgtcg acatggtgcc caagttcatg atggcaaacg gcgcgctggt ccgcgtcctg 300
atccgcacca gcgtgaccaa gtatctcaac ttcaaggctg ttgacgggag ctttgtgtac 360
aacaatggca agatccacaa agtcccggca accgacgtgg aggccctcaa gtcgaacctg 420
atggggc 427

<210> 42387

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-H11

<400> 42387

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gtgacgtcgc agcaggacaa gctcgggatg ggctacgtct ttgggaggct cgtctggaca 120
gacgggaccc actatgtcag aagccccgtc gtcgtcaacg ccctcgcacg atctatccag 180
ttcgtgctaa ctagagtaca ctacctacta ctactacttg agggccttgt ggatttttgt 240

gacatcttag ataagtagta aggcctctaaa atatattttt atttcttctt gttattatta 300
 gtaaagaaat gagataggtt tttttttgct tagctaaaag acatatcatc tataataaat 360
 tttggctctt tgcattggg 378

<210> 42388
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-007-Q1-K1-H12
 <400> 42388

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 ctgcctgcta gaatggtcca gccaacggac gggaagctgg tatggtttct ggacaaggcg 120
 gcggcatcat tccttgactc caagaacgac gacgacgacg cttgctacga tcgtcacgag 180
 tgactaactc tgaggatcgt tggctgtttt gaagcgaatg aacggagggtg tgtgtaagta 240
 ggtggtggcg tatgatggaa gacgcgctgt tcccctttta gctcgatgca tgggttaatt 300
 ttgttctgag ggttttttagc tccggaaatc tgaaattgcc cttggtcctt ttgcagttag 360
 gtgatttaaa agcgatgaaa tgtgtatgag atgttgagtc gtcaaagaac accggaattt 420
 aacttgggtc gtataatatt atgtgctaca ttctatgc 458

<210> 42389
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-007-Q1-K1-H2
 <400> 42389

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 gacgtcaaca tcaagtacag tggcaccaac aacaagacca tggccgtatg caagaacgct 120
 aagggcagcg ccaaggggtg cctcaaggag ctgcgatgct tctagaacca ccatcgaccc 180
 atctctctag ttatacaatg tgtttggttg ttggatgctg agagattggt tctcagctca 240
 gatgcaagct gcgcctagcc tgtgtagggt tgtgctggta cattgagagc tcttatttaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360

aaaatataaa aaaaaaaaaa aaaaaatttt ttatggattg atgttgata ttagtgat 418

<210> 42390

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-007-Q1-K1-H3

<400> 42390

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ctgtcttcca aatactacac cgctttgcta aagggtgatg ctaatcagaa cctcttagac 120

aaggggtgagg aactagcaaa gcggatggat gaggagggtg ccaagtttg gaccccaact 180

ttgaatgcac ttgtgaagct atatgctgac gctggagagg tggagaaagc tgagtcccta 240

ttgcacaagc tatctctgaa gaacaacgtc aagcccagtt acagctcata catgacactg 300

cttgatagct actcgaagaa aggagacgtn cacaactcgg agaaagtgtt caacaagttg 360

agacagatag gctacactgg gaggatcagg atgtaccagt ttctgcttca ttcttatcta 420

catgctaaag ccctgcgta tggattcaaa gag 453

<210> 42391

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-H4

<400> 42391

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gctgctgcac ctgtccccgc tctcgcgatg gcgggggttt cctatccact tcgcgcgcgc 120

ggagtcgcac ctcagggagg tccgcgcgcg cctgcacggc tgggccccga cccgcgcacg 180

gtgtgtttcc acgcgatgga cgtgccccgc caccaccccc ccccttcccc gttcccggcg 240

cacatgcaac ccttgttcga ggccttctgc accggcgcgc gggcctcgt agtcgcgctg 300

gagaggaggc ggaagaaatg ggggaggagg cgcgacgcac ggacgaaaga tggtgatttg 360

atgatataga tggacgggtc agattggttc gaggccgaac tgggtggagtc atacta 416

<210> 42392
<211> 472
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-H5

<400> 42392

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ccgcacgttg tcaaagttaa agagtttgct catccctact accaggaagc caagaagttt 120
tctaagcctt acattgatca aattgctgag atcactaagc cacatgttga gaaagttaga 180
actactctga agccatacac taagagagca gttcatgcgt atgggtcatt tcttgcgctc 240
gcaaccacat accatcgaca ggctcaggcg accatcatgg actacctcca tcagcatggg 300
gtaccecaagt catttgcaac gaaggagtta gtttggttcc tggcttctgc cttgctagct 360
ctgcctgtct tcgtcatata caggcttgta gtagagacct tatgcaccaa aaagaacaga 420
aggcctcgtg gcggtaatgg taacggtaac catggccaga agagacacaa gc 472

<210> 42393
<211> 478
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-E6

<400> 42393

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cagcagtgga ggttttgcag catcccttct ttcagccatg cttctatgtc ccaccttcac 120
ttcgcttcaa atctactgga tatgcatcaa cgccaccatc agctggggct aaaggagctg 180
ttgatcagaa gaacattagg agatactaca tgggtactgt acccaatgcg aggccaacag 240
ttaattactc gtacttgaga aacaatgctc ctgcaagagc agttggtgca caaaggaaat 300
tggagttgga ttatcagctc ccagagacta ataaccataa taaggtgaca aaggcagaag 360
cgatgaacca gtcttggtcc agaccagcag cagtaaggag caatgcagga aatcatcttg 420
ccaacgacct gaacccccgt gtacctgacc ttgccgagaa gctgtctcag ttgtcaat 478

<210> 42394
<211> 482

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-E8

<400> 42394

cccacgcgtc cgggtggaacc cgccgcaagt tactgatggc ctcctgatg cgttttgtgg 60
aggggtgggtt ggattcttct catacgatac agtgcgttat gttgagacaa agaagcttcc 120
tttttagcaag gcaccgcatg acgacaggaa cattcctgac atgcatttag gcctctatac 180
caacgtcatt gtgtttgatc atgttgaaaa gaaaatgcat gttatccact gggtgaggac 240
ggactgctac caatctcttg acgaagcata tgaagatggg acaaatcggc ttgaatcttt 300
gctatcaaaa ttacattgct tcaacgtccc aacgctttct tctggttcta taaaacttaa 360
tgttggaggc tttggatcgg cgacgctaaa gtcaaacatg tcaaaagaag agtataaaaa 420
tategttgtc caagctaaag aacacatctt ggctggtgac atttttcaag cagttctaag 480
cc 482

<210> 42395
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-F1

<400> 42395

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tgagcggcgc atggtgcggt cctcccaaag tccccccagg caagaacatc acggccacct 120
atggcaagga ctggctggac gctaaagcga catggtatgg caagccgacg ggtgccggtc 180
ccgacgataa cgggtggcggc tgcgggtaca aggacgtgaa caagcccccc ttcaatagca 240
tgggcgcatg cggcaacatc cccatcttca aggatggtct gggttgtggg tcttgcttcg 300
agatcaagtg cgataagcct gtggagtgtc ccggcaagcc cgtggtggtg cacatcacgg 360
acatgaacta tgagcctatc gcggcgtacc acttcgattt 400

<210> 42396
<211> 351
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-007-Q1-K1-F10

<400> 42396

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tgggtcgtagg cgccgtcctt ggggagctcg tcgcccggcg gtcgtgcggg cccccgaagg 120
tgccacccgg ccccaacatc accaccaact acaacggcaa gtggctcacc gctagggcca 180
cctggtacgg tcagcccaac ggtgcccggc ctctgacaa cggcggtagc tgcgggatca 240
agaacgtgaa cctgccaccc tacaggggca tgacggcgtag cggcaacgtn cccatcttca 300
aggacggcaa gggctgcgcc tcaatgctac gaggtgagat gcagggaataa a 351

<210> 42397
<211> 349
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-007-Q1-K1-F12

<400> 42397

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ctgagagcta gtggccaaag ttcttcggag tccgaagccg gctgggttga tcttttcagc 120
aagcgttact ggaaagtgtg gagtgtgggg gcagcactgt ttttgttcca gcagcttgct 180
ggtataaacg ctgntgtata ttactctaca tcggtgttcc gtagtgcagg cattgcatct 240
gatgttgctg ctagtgtctt tgttgaggca gccaatgttt ttggtactat ggttgcattc 300
tctctaattg acaacaagg aaagaaaagc cttctgataa cagcttttc 349

<210> 42398
<211> 306
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-007-Q1-K1-F2

<400> 42398

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agcaacgagt cgctggagaa tgccttcgcc ttctacggcg agatcctcga ctccaagggtc 120
atcacccgacc gggagacggg gaggtctcgc ggcttccgac ttctgtacctt ctctttcgag 180
aactccatgc tcgacgctat cgagaacatg aacggcaagg agctcgacgg ccgtaacatc 240
accgttaacc aggcccagtc ccgtggcggt ggcggtggcg gccgtggcta cggcggcngt 300
cgcggc 306

<210> 42399
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-F3

<400> 42399

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gggcgagctg ttgcaaccag acaccgacaa gggcgccgag gccgagttca tgtccatgct 120
catgttcate ttcagcgggt catgatcatg catggcctta agtaagctca cggacgggtg 180
cgctgcact cctgccggcc atatcgccgc gtctgtggca gcacgacta tccctattac 240
tgcccgctctt cgggggtgcc aacatctgct ggggccacgt gaacctgac gtgaccttag 300
gtgcctttgt gggcggaac atcagac 327

<210> 42400
<211> 483
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-F4

<400> 42400

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tggtcgtgga aatgatccaa aaaagtttgc ttctatgctg gtgaacttta tgagcaagtg 120
ttaccctggg gaagatgata ctgcaattgc acgtgggggc ctaatgtatc tatctcaagg 180
gaacctgaga gatgcaaatt tacttatgga tgagatgaag gaacaactaa aatctgttaa 240
ctcggatttt ccgaaaacag atttgattca gttcatcatg tatcttttac caacgcttga 300
gagagatgct tctctcttt ttaggacact tcgacagaag tataagacaa gcacagatcg 360

tgacgctgtg ttccaggagt tactggacga aatagctgca aaattttaca atatacagcg 420
ccagaaccct ttagaaggac ttttcagcga aatgttcagg atataatgca tgagaaaaga 480
ttt 483

<210> 42401
<211> 464
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-007-Q1-K1-F5

<400> 42401

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gcccaacgaa aatgtcgcgc gccacagctg cggctcctct ctacatcctc gccgtcgtcg 120
ccctcagcgc ggccgaggca ccggcagagt caccgaaggc aggcagtcct gccaaaggcac 180
cggccgagtc accgaaggca ggcagtcctg cagctcctgc caaggcaccc gagtctgctg 240
ccacgagaac tgcccccgct aaggcacctc aagccgcctc ccccccgcc gctgccgctg 300
ccccatcgtc gtcgtcgtct aggaagtctg gtccagctgc cgcgccgacc accgtcgctt 360
ctacaccgtc ttcttgacg gacgaggagt tgagcccttc gccgtcggca tccaccgncg 420
aggtggcgtc ccctgccgct gatgggcctg ctgagggacc ggcg 464

<210> 42402
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-F6

<400> 42402

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cacgtgcgca cgggtgctgta tacacaattt aaaggagcgt gagggcagcg gcttctctcg 120
tttcttctt ctctagctat ttgtcccccc tagctcggtt gttctctcgt cccgtcgtcc 180
ggttcatttc cgcttccgag gaataataat caaccaaagg ggctctgctc tatctcaaga 240
agacttcatt catgtgggca ccagcagtc ctcactgccg ggggcgggag accagggaga 300
ttaagaggcg atggtccgct gcaatgcatg catgcggata tatgcatgcg taaacacatc 360

gagacgccgt aaaattgttc tggtatagtt atgtatatgt acatgcatat gtctcctgat 420
tcaacttttg atgtta 436

<210> 42403
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-F7

<400> 42403

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agatcttcgg agtttcgata ttgataacca tatagccgtg tgagggtgaa aggttctaaa 120
ccttttgcga ttgaggagaa tggttttggc atacaacagg cgcgcgcgca cacaccattg 180
gaacagattt aaagtaggtg ctggaactgt aaatgattcg gtatcaaaaa ggctgggttta 240
gccatttttag gagattatgc gtttcgattt catgggagtt gggaggacag aattgtatca 300
tagtgcagta actcttgggt gtaggattga gttatcctgc atgccatggt tgtggcgctt 360
cgtcagcgac cgaatgcttg aatgtgggta cgattctctg agctcctttt caaccattaa 420
ttcc 424

<210> 42404
<211> 466
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-007-Q1-K1-F8

<400> 42404

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acatcgtcgc cgccgcgggg gtctcctccc ccgccgcagc ggccggtcgt tccccggcgc 120
attctcccgc tgccgccttc gcgcgcctcc ggtcgacgcc tcgttttcgcg agcgtcggct 180
tgtcggttaa gggaaacgga gcggcggttc cgttggtcgc cgccgcgggg ccggccgcgg 240
cggcaccggt ggccgacctg gactggccgc cggccacgga gaagcagccc atcatcgtea 300
tcgacaacta cgacagcttc acatacaacc tctgccagta tatgggggag cttggattga 360

acttcgaagt ataccgcaat gatgaactga ccatangaga tgtgagaagg aagaacccaa 420
 ggngaantac tattttctnca ggacctggtg aaccacagga ttcggg 466

<210> 42405
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-F9

<400> 42405

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 ggtggatcag tcgatgctga tcggcgacga acacctgctg cggcctaacc cgagtatggt 120
 caaggtctcc tccatgcccg cgctctccta ccgtgagccg gatgggtcca ggatgctgcc 180
 agcccatggc gccgggagcg acggcgacgt ctctctcgctg gggcaatgcc ctccgggaca 240
 ggacctccac cgtgggtcga catgggactt caccttcgcg gccgtgaagc cggcgaagag 300
 gaggacggcg agcgaggtgg ggttctccga catgttcgcc gtcgcaccgc cgggggattg 360
 gttcggcggc gggtcgacgg cgccatcgcc ggggccgtca tcggccgtca ccgacgaaga 420
 gtttaacctg gagatgcagc agttcatgtc aatgct 456

<210> 42406
 <211> 460
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-007-Q1-K1-E5

<400> 42406

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 gcgcgccaca gctgcggtcc tcttctacat cctcgccgtc gctgcccctca gcgcggccga 120
 ggcaccggca gagtcaccga aggcaggcag tcctgccaag gcaccggccg agtcaccgaa 180
 ggcaggcagt cctgcagctc ctgccaaagg acccgagtct gctgccacga gaactgcccc 240
 cgctaaggca cctcaagccg cctccacccc cgccgctgcc gctgcccctat cgtcgtcgtc 300
 gtctaggaag tctgggtccag ctgccgcgcc gaccacgcnc gcctctacac cgtcttcttc 360
 cacggacgag gagttgagcc cttcgccgtc ggcattccacc gncgaggtgg cgtcccctgc 420

cgctgatggg cctgctgagg gaccggcggc tgctgatgcc

460

<210> 42407

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-007-Q1-K1-D12

<400> 42407

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gtcgtccttg cagcgtcgt cgccggcggg tcatgcgggc ccccgaaagt gccgcccggt 120

cccaacatca ccaccaacta caacggcaag tggctcaccg ccagggccac ctggtacggt 180

cagcccaacg gtgccggcgc tctgacaac ggcggtgctg gcgggatcaa gaacgtgaac 240

ctgccaccct acagcggcat gacggcgtgt ggcaacgttc tcatcttcaa ggacggcaag 300

ggttgcggtc catgctatga ngtgagatgc aaggaaaaac ctgagtgtc gggcaatcca 360

gtcacggtgt acatcactga catgaacta 389

<210> 42408

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-D2

<400> 42408

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tgcaggacag gagaggttta ggagtcttat tccaagctac atcagggact cttctgttgc 120

ggtggttgtt tatgatgtat ccaatagaca gtccttctg aacacctcaa agtggatcga 180

tgaagtgcgc accgagagag gtggcgatgt gataatcgtg ctcgttggca acaaaactga 240

tcttgctgac aaaagacaag tgtccacaga agaaggagag agcaaggcaa aagaattgaa 300

tgtcatgttc atcgagacca gcgcgaaagc cggctttaac atcaagcccg tgttccgcaa 360

gacgcgttgc accctgccag gaatggagac attgtcagca aagcatgagg acatggtgga 420

tgtc 424

<210> 42409
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-D3

<400> 42409

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 cgcgcgggccc aacctgattg ttcttcaacc aagaggaaga aaggaaggaa gggaccggaa 120
 gcatcagcca tgtcgaactc ggcgtcggga atggccgtct gtgatgaatg caagctcaag 180
 ttccaggagc tcaaggcgaa gaggagcttc cgcttcacgt tgttcaagat caacgagaac 240
 gtgcagcacg tgggtggtgga caggctaggg gagccaggcg agagctacga cgccttcacg 300
 gcctgcttcc ccgccaacga gtgcgcgtac gccgtgttcg attttgactt cgtcactgac 360
 gagaactgcc agaagagcaa gatcttcttt atctcttggg ccccgatac atcgaggggtg 420
 agaagcaaga tgctgtacgc gagg 444

<210> 42410
 <211> 476
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-007-Q1-K1-D6

<400> 42410

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 tgcagacctg cgcgcccaac tcgacgcagg tgggtggggt cctgacgctg ctgctctctg 180
 ggcgcgtgct gctgctgctg acgggggtga cgctgacggg cgccgtggtg gcgctcgtct 240
 tcttggggcc catcgcgctg ctcaccagcc ccatctgggt gcccgtcgcc gtcgtgatct 300
 ccgccatcgt cgccgacgcg ctctccgtct gcgccttcgc cgtcgacgcg ctccccgtgg 360
 ccacctggat gtaccgctac ttcacgggcc gacaccccggt gggcgccgac cgggtggact 420
 acgcgcgcag tcggatcgcc gacaccgnca gccacgtcaa ggactacgcg cgcgag 476

<210> 42411
 <211> 467
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-007-Q1-K1-D7

<400> 42411

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 cgacctgttc atgaacggcg ccatcttcaa tccgtccggc ggcgccccca agcaggtcga 120
 caccaacgag tgggtaaagc ccaagccagg aacctacgtt acaaggctca cccgcttctc 180
 cggcacactg tcttgtctga cgggcaagcc gtgctgaagg ccggtgggca tcaggctgct 240
 tcttctagct catggcctgg ccatgccagg tcgcgtggc tgcgtttcat ttcattggaag 300
 aaagcaagga tggatcacag gttgtcgttc tgctaattaa tctacatacg tttgccttca 360
 agtactgtgt tgtggcattg ttacacatca cagtacagtt tgggtcaaatt ttttttccac 420
 aaaggaagta nggattgatt taatcattga tttaatccca cacgcgt 467

<210> 42412
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-D8

<400> 42412

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 ccctgacacc ggcggcgcca tgggtgctga ggcaacgatg atctgcatag acaattcgga 120
 atggatgcgg aacggcgact acgtccgtc gcggttccag gcgcaggccg atgccgtcaa 180
 cctcatctgc ggcgccaaga ccagtcgaa cccggagaac acggtaggcg tgatgacaat 240
 ggccgggaag ggtgttcgcg tgcttgctac tcccaccagc gacctcgga agattctcgc 300
 ctgtatgcac gggttagaag ttggcgctga tgcaaacttg gctgcggcaa tccaggttgc 360
 ccagcttgct ctaaagcat 379

<210> 42413
 <211> 448
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-D9

<400> 42413

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atgtgtgacc gggcaaagat gtcgtggcag gcgtacgtgg acgagcacct gatgtgagag 120
atcgagggcc accacctcgc ggcgggcgcc atcgtcggcc acgacggtgc cgcctgggag 180
cagagcacgg cgttccccga gttcaagacc gaggacatgg ccaacatcat gaaggacttc 240
gacgagccag ggcacctcgc gccgacaggg ctgttctctg gacctaccaa gtacatgggc 300
atccaaggcg agcctgggtgc cgtcatccgt ggcaagaagg gatcaggagg catcacctg 360
aagaagacag ggcaggcact cgtcgttggc atctacgacg agccgatgac gcctgggag 420
tgcaacatgg tgggtgaaaa gctgggag 448

<210> 42414

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-E1

<400> 42414

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tactacactg tgacagattc catgatctgt ttccagcgaa aacaaagggtc aagtgttttt 120
ctgatgctgg atattttttc gatgggaagg atatctccgg gaactttttac gctagggtcaa 180
tctataagag cgttgtgaat ctacatggat cagccaaaaa tttaccagct tcatgtacct 240
caaagccaaa gcaatcacct gagctgtgta tgttcccaca gtatgttggtc ccgacaatgc 300
gcacaccatt gttcatactt aatgcagcct acgattcgtg gcagggtcaag aacgtcctag 360
cacctagtcc agctgatccg aataagactt gggcccaatg caagcttgac a 411

<210> 42415

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-E10

<400> 42415

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ccgctcatct gctggccttg tctcactgcc gcccaaccat ttctctccct caagctagca 120

cgcagcctca actcctctcc cacctcacgc acgtctctcc cagccgttcc ttcattttctc 180

tggctcgtcc ttctccatga ggtcgcgccc tgetgcgcgc tegtgtgtgt cgcgggtga 240

gcccccttca gtgcctgacg ccgcatctcc ctggtgtctca cctctgtttc cccctgcgtt 300

ggaagacctc gcactccctc cctgtctcag atttctccat ggtcgccctt ttccttgccc 360

cgggtggcga gctcgccctt cattcctgtt cgcctaattt ccacttccct gttgcagcca 420

ccttccatgg acgccagccc 440

<210> 42416

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-E11

<400> 42416

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atcctgaagc ttgtggtgga caccaatggc gagacagacg cgaataatgt tctgcaggag 120

actctactgt gcgtgcgcga caaacttgcc aagcctatgg tgcttatgcc caacgataac 180

gtgctcccgg cgcaggataa ccacagactt catagttact tcgacccgat caagctggac 240

gagagtaaga cactcaccac cattctccac acgctgtctt aggacactga caagaaactc 300

gagagtctaa acta 314

<210> 42417

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-E12

<400> 42417

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aatcgtgctg agaagagagg agagttttac acaaaattag aagaaaaacg caaggctttg 120

gaagaggaga aactccaagc agaggccaga aagagggaag aggaagaaga agctctaaga 180
 caactgagga agaacttggt cgtccgagca aaacccatgc caagcttcta ccaagaggga 240
 cccccaccaa aggttgaact taagaagggtg ccttcaactc gtgccaagtc accaaaattg 300
 acacggagga aagagctgca gtgaaacccc tcatacacca gagggaggaa atggcagtcg 360
 agtatgct 368

<210> 42418
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-E2

<400> 42418

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 caaccggcg ctcttcctcg ccaaagcgcg aggagggacg tgcacgctcg ctccctctga 180
 cctgacgac acgggtggctc gccgcgccag atacctgctg agcaacgggt tcaggtgcta 240
 caacctgttc aagagcaact gcgaggactt cgcgatatac tgcaagactg gcctttctgt 300
 cgctgagcag ggcgttgctg ggcagagcgg gcaggctatc tccatcatcg 350

<210> 42419
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-E3

<400> 42419

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 ttggtcgccg ccatggcgat cctctcgccg ctcgccaccg aggtgttcat ccccgtcgcc 120
 gccgtcatcg gcatcgctt cgccgtcgtg cagtgggtgc tcgtgtcgcg ggtgaagctc 180
 tccccggctg cagccgcgtt cggcggcagc aagaacggct acggcgacta cctcatcgag 240
 gaggaggagg ggctcaacga ccacaacgct gtcgtcaagt gcgccgagat ccagaccgtt 300
 atctgcgaag gagcaacatc gtttcttttc actgagtacc aatatgttgg tatcttcatg 360

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375

<210> 42420

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-E4

<400> 42420

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ttcctttctcc tcgtctccac cgcgcccgcc gtgcggacca tccccgacga agcccgcggc 180

cccggaaaca acatccacga ggcgtgcagc aagacgctgt tccccaaggt gtgcctgcac 240

ggcgtcaagg acaaccccgga gtgccaggcg ggggcgggtca cgcgcgcgcg gctggccgag 300

ctgctcgtgt acgtgtcggc cgaagtgggc atgaccgtgg ccgcttcgc gcaccacgag 360

ctcaactcca tcaaggacga cgtcctgtac aagggcctcg acacct 406

<210> 42421

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-D10

<400> 42421

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tggcgaactc ggcgtcgggg atggccgtga gcgacgagtg caagctcaag ttccaggagc 180

tcaagtcgaa gcgaagcttc cggttcatca cgttcaagat caacgagcag acgcagcaag 240

tgggtggtgga caggctgggg cagccggggc acacctacga cgacttcacc ggctccatgc 300

ccgagagcga gtgccgctac gccgtcttcg acttcgactt caccaccgac gagaactgcc 360

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tgctgtacgc gagtccaag gaccggttca agaggagct 460

<210> 42422

<211> 457
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-007-Q1-K1-B8

 <400> 42422

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 cggtcgagat cggagagtcg gctgacgttc cagagaaaga aatggaggcc gagatgggtcg 180
 acgattacgt ggatataggc gacgagatgc cgacagtga ttaccagtca gtggagatcg 240
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 ccagcgattc cgactcggac tccgattctg acggggacga tgccagcgcc ccgcactagg 360
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 gaaaaggttc catttgatga ggcgttttga agaacgg 457

<210> 42423
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-007-Q1-K1-C1

 <400> 42423

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 gctagtggcg gccaccgccc cacaggtagc ggaggcaaag aagaagagag cggcggagag 180
 cggcgaggcg gcggaggcga agaagatcca ggacgacttc tgctcgacgc tgtgagagg 240
 caagaagggg acggacctgg tcgtgtgcaa ggagtcctgc gcgtctccc agcagtcctaa 300
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 ggcgc 365

<210> 42424
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-C10

<400> 42424

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aagtccgggt ggtgaggggc atcaaccttg cctaccgga cgcaagaggc agcgatccgt 180
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tggaggtgtt cgacaaggac acgttcagca gggacgaccc gatgggggac gcggagatcg 360
acgtggcgcc gctggtggag gcggcgaacg cgagcccgga ggcgagcctg aggaacggcg 420
ccatcatcct gtcggtgcgg ccgagcgcca cgaac 455

<210> 42425

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-C12

<400> 42425

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agaagacgat gttcggcgtc cgcacatcaagg cgtacgagga cgccgcctcc gtgctcaccg 240
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aggatgtcac cttcaagaac atcaccggca ccttcttcac cccggaggcc gttagcctgc 420
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<210> 42426

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-C2

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accccgctgt accggttcaa cgtcccgac ctgcgctcg gcaccc 226

<210> 42427

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-007-Q1-K1-C3

<400> 42427

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agtgccacaa ggagatgata acgaagcagg agcaggccca gctggctgac tctccatcg 240

atagcattgt caatggcggg gacggcgga aaggacctgt aattgctgca tctgtaaag 300

tggcagttcc tcaagttgag cagaagacta ttgtgtgca gccatgctt gtagctgaaa 360

ccagcgaggc tgctgctgta atcccaagg ccaaggaagg cccagaccgg tgcgggcct 420

gcangaagcg tgttgggc 438

<210> 42428

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-C4

<400> 42428

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tactgcgaca actgccgcg cggttcgag acaaactgtt cccacgccat ccaaggcgcg 180

acggtggaga tggagtggc ccacttcgag tcgcagcagg tccacgacaa ggcggaggcg 240

acgacggggc cggcgggctg gtacaggatg gagatcagcg gcgaccacca ggacgagatc 300
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 gaccgctgcc gcgtcccgtc caccgcgaac gacggcatca agcagagcgg cgttcgctac 420
 gccaacccca 430

<210> 42429
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-C5

<400> 42429

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 tgccaagga ggaggccgtc gccatttccg gccgactcct ccagatcctc tccgaccatg 180
 ggccccctcac cgtcgccaac acctggaacc acgccaagga tgctggcatc gctggcctga 240
 acagcaagac gcacatgaag atcctgctga aatggatgac agggagaaat gtcgtgaagc 300
 tgacctgcgt gcacgtgggc aacgcgaaga agttcctcta ctccccgttc actgaaagca 360
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 c 421

<210> 42430
 <211> 476
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-C6

<400> 42430

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 cgttcgccgt cttcccgttg cggcctccgc ggcaccgtcg ggcgccgtcg ccgcggcgac 180
 ggagcgcaag cgcttccggg agcgctacgg gctcaacca gacgacttcg aggaagatgc 240
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gggagagggg agcaaactgt ggaagctgca gttactccag cgaaggtggc ggagcctcgg 360
gagactcaca aatcacaatc aatacgtaat gcagttactt caggtttgga cagaaaccgt 420
tcctttgttt tggtcgtgta atgtcagagc aattatatcg atctattact cttctg 476

<210> 42431
<211> 433
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-007-Q1-K1-C7
<400> 42431

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cgctgggatg gatgacctcg gggccgcgcc gctcgcaaat tttggcccg ccttgaggaa 120
tttctcgcca tcgaagttaa atccgccgta gatccgtttt cgccgtggcc agaggattcc 180
ggcccgctaa gcttgctgta ggttacgagt cacctgaaga tcatcctggt atctggaatc 240
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gttcgtgaga ggtctaggtc gtcgtctccc agtcaacttt tggttgctgg accgttgtct 360
ccttataatg taattattta ttttgtacaa aactcttatt atatagtaaa gatgtgacat 420
tcgaaaaana aaa 433

<210> 42432
<211> 475
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-007-Q1-K1-C8
<400> 42432

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tgttgatgtt gttgagatag gtgaaaggcg tgccaatgtc ggggatgttc ttaagggttaa 180
gccattggca gctttagcaa tgattgatga gggagagctt gactggaaaa ttgtggccat 240
ttctttggat gacccgaaag catctcttgt gaacgacgtg gatgatgttg agaagcattt 300

tccggggaca ctgactgcc a tcagagactg gttcagagac tacaagatac ctgatggaaa 360
gcoctgctaac aaatttggtc tgggcaacaa gcccgaagc aaggaatacg ccctgaaggt 420
cattcaagag accaacgaat catgggagaa attggtaaag aggaatattc ccgct 475

<210> 42433
<211> 461
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-007-Q1-K1-C9
<400> 42433

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gogcoctgctt cttcctcgtc gtgctcctcc tagccgcctt cgccatggcg ccgttcgcgg 120
gcgcggcgcg catcgacgtc gtcgagggca ggtccatggc gtccgcggac gcaccggagg 180
ccgtcgccga cgctcccgtt cctgctcctg gccccgactc ctctcgcacc ccgtcgccgg 240
cacccttcag cagcagctct ttcgactaag ccgcggcgag agatatctac ggcgtccgat 300
cagtcttttg cgccacctat aacctatcgg atcctgcaaa gctatatatg attctatggt 360
ataatgtgtg gntgcggcaa acgcgcggga ataatgtgct tgcgtgattg gttttctctc 420
tctttntttg gttaataatg taaaacaggc atacggcgat g 461

<210> 42434
<211> 450
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-007-Q1-K1-D1
<400> 42434

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ggctggagat tgcgccgtca gggactaagt gtgtgtcgga ggagatccaa tccaacgttg 180
tcgtcatcgg cgactactcc gtcctctatg atcaccacca cgcccagact accatctacg 240
tcaaggtcac attctctttt ggagacattg ttcataagag agagaacgtt tcgatggggc 300
aatttgcatt taccacagca gatgcaggga actaccttgc ctgcttctca attgatgggtg 360

aggacagagg gttagtgggtg aagctagatc ttgactggaa aattgggctg gctagtagag 420
actgggattc tgttgccaaa aggaaaagat 450

<210> 42435
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-B7

<400> 42435

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aagaatccag tgaacaagtg gcgatgcggc gcgactccta tttcgtctat gatgactgtg 120
aagcgatggc cgcgtggccc ttcagccacc caaattggaa agcccgtgtg tcacatggct 180
agcgttgact tgaaaggaaa agcatacgat gtgttgagac agaattcttc cagctttttg 240
ttggaagatg tctacagaaa cccaggcccc ctccagtttg aaggaccagg tgccgattca 300
aagcctatct cattgtgcgt tgaggatcaa gactatatgg gcagaataaa aaagttgcag 360
gaataacttg agaatgtgaa gaggattgtg aagcctgtgt gtcgcagga tgttcttaaa 420
gcggcgctga gtgcatgtc ttctgtgacg gaaacactga aca 463

<210> 42436
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-007-Q1-K1-A12

<400> 42436

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gtgtactact ccacggtgtt cgtcttcctc gatcactggg tcggcctcgc cagcccgatc 180
ggcgccgcc acgccgccgc cgtctcgtc gccgtcgccg cgtgcttct cgccttcgtc 240
tgcgccgcgg gcgccgaccc gggcgccgtc ccacccgcct tcgccccga cgccgaagcc 300
gcgcagggac aggggttgaa atcaaggtat tgtgataaat gttgcatgtt caagccttct 360

cgtacccacc actgcaaggt ctgcagaagg tgtgttctga aaatggatca tcaactgtgtc 420
 tggatcaaca actgtgtang atacgcgaac 450

<210> 42437
 <211> 479
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-007-Q1-K1-A2
 <400> 42437

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 gacgctcaag ctgggggttca ggtttaagca ggacctggtg tacctctcct ccaccttctc 120
 cgccgccctc ggggtgcgatt ccggattcga taggggtggag cttttcttgg atgtcaccaa 180
 catttattac tatctcaagg gccatgatag gcagaagaag cttccaaagg agaccaagag 240
 tttggcaact atttgtgagg agctgcttgg tatecttttg tccaaggaac tccagtgtag 300
 tgattgggtca tgccgcccct taagtgaagg gcaaatacaa tatgctgcgt cggatgccta 360
 ctacttgcta gacatatattg atttgttcca aaaaaggatc acaatggaag gaaaatgttc 420
 atctacaaca gaacttactt cagacagaca ttgctcatca gtggtgatag aatgctctt 479

<210> 42438
 <211> 308
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-007-Q1-K1-A4
 <400> 42438

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 ctggtgggtc cttcgacatc accaagttgg gcgccttcgg caatggcaag acagacagca 180
 cgaaggctgt gcaggaggca tgggcatcgg cgtgcggcgg cactgggaag cagacaatcc 240
 tcatacccaa gggtgacttt cttggcggac aactcaactt tacaggccct tgcaagggcg 300
 acgtgacc 308

<210> 42439

<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-A5

<400> 42439

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acgagtaaata gaatcagctg ttggtccact tggaaaggaa ctatttgaga gagagcaaga 120
tgatcttctt tctgatctca aagatatccc caagaaagcc tgtgaccgcc ggatcaatga 180
atgtgttaaa cgtgctagag ctgccaagat ccatgcttat ataataggct atctaaagaa 240
ggagatgcct acaatgatgg gcaaagcaaa agcccaacaa cgactcatag acaatctgcc 300
tgatgagttt gcaaaggctc aacgggaata ccatcttccg tcgggagatt ttccttatgt 360
ggagcacttc aaagatgtct tgagcgggta cagctttgac aagtttgaga aggtgaagcc 420
caagatgata caggccgtgg atgatatgct tggatatgac at 462

<210> 42440
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-A6

<400> 42440

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cgatgagacg gtccccctct tcgggttctc cggcgccgcc gtcgtcctcg tcttctcatg 180
catgggcgca gcgtacggga ccgcgaagag cggcgtctgc gtggcgctga tgggtgtgat 240
gcgggccggag ctcgatcatga agtccatcgt gcccggtggtc atggctgggtg tgctcggtat 300
ctacgggctc atcatcgctg tcatcatcag cactgggatc aaccccaagg ccaagcccta 360
ctaccttttt gatggctacg cttaccttct gtccgggctt gcctgtggcc ttgctgggct 420
tgcagctggc atggccatcg gcattgttgg tgatgctgg 459

<210> 42441
<211> 470
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-A8

<400> 42441

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acacagctcc accttctccg atgagacgaa agacaaaatg gagcacgatt cactgggtgta 180
cagtcacacg agcatcgca gggccacaac caccggcatc cctgtcggcg atcaaggcgt 240
ggcgtgcta cgtggggccg ttatcgtggg tgcagggccg gcgggtctgg catgcgcggc 300
gttgcacc atgttataca ttccctacgt gtcctagag cgcgacgtgt gcgtagcctc 360
aatgtggcac cgtcgcacgt accgcaggtt gtgtctgcac ctaccaagc gctactgtga 420
gtccccgctc atgcactttc caccgaccta cccacatat ccaaccggc 470

<210> 42442

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-A9

<400> 42442

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atcccacttg cccagcttg tggtgtaatt cgtgtattga cccagtata tgctaccctc 120
cttctgctg gcccttttat ctggagaata ttctggattt tactttggtc agttctgacc 180
tattttatgc tcgcatatt caagataatc gtgggattga tactgcgctg ccttgcaaatt 240
tggtatgtaa atctacggct cacaagaaaa caacacgtgg attgagtaca tggcaccaca 300
attctgctgc tatcgttaca tctgtgagta gaaattttg 339

<210> 42443

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-B1

<400> 42443

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 tgggtggtgct gctggtgctt cctctttgtt ttttgtgtac tccctggact acgcgagaac 120
 aaggttggct aatgacgcga aggctgccaa gggaggaggt gaaaggcagt tcaatgggct 180
 tgtcgatgtc taccgcaaga cactcaagtc tgatggtatt gctgggcttt accgtggatt 240
 taacatctcc tgtgttggaa tcattgttta tcgtggtctg tactttgggc tctatgattc 300
 catcaagcca gttgtcctta ctggcaacct ccaggacaat ttctttgcca gtttcgctct 360
 gggttggctg atcactaatg gtgctggtct tgcattctac cccatcgata ccgtccgcag 420
 aaggatgatg atgacatctg gtg 443

<210> 42444
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-007-Q1-K1-B10
 <400> 42444

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 gctggccggc gccatggtat ccggaggcct catgttcacc ggctgcttct tgatttatga 180
 agcaacttca tcccggaaga gccgtagcct gtcaaaggag atcgcatcag cagtctgttg 240
 cttctggtgt cttggactgt gggctctatga tcgtgcttct tgcaagtggg gccaatgcct 300
 gatgactggc tatggcccgt gtgtgcttgt gttctgcata ccgagctgta gactgggtta 360
 tgacacatcc tgaacgctga tgtcctaacg aatatagagc a 401

<210> 42445
 <211> 453
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-007-Q1-K1-B11
 <400> 42445

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 ttcgatgcac aggataacat ctgctcgat gttacagctc tgccgtgaag ggaggcacct 120

cgatcgctgg cgtatgtgac atcattgctg tcgcatctgg gaaaggcggc gtaggcaagt 180
ccaccactgc agttaacatt gctgtagcac ttgcaaagga gtttaagctt cagggttggtt 240
tgctagatgc tgacatctat ggaccatcca ttcccacaat gatgaatctc catgccaagc 300
ctgaattaag tgaagacatg aagatgattc caattgagaa ccatgggtgtg agatgcatgt 360
ccattggttt tctttagac aaagacgcac caattgtttg gagaggtaat gagtgtctctt 420
gagaagatga caaggggagt tgcttggggg gac 453

<210> 42446
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-007-Q1-K1-B12

<400> 42446

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cgagggtggag gctaaccagt acaccgtgc actgaatccc atcctcttcc aggtcctcat 120
cagtcctatg cttgggggaa ccaccgacca gaaagttgtg gatgagaacc ttgagaagct 180
gaagaaggtg ctagaggtgt acgaggcacg cctgaccaag tgcaagtacc ttgctggaga 240
cttcctcagc ctgcccagacc tgaaccatgt gtctgtcact ctctgcctgt tcgctacgcc 300
ctacgcctct gtgctcgacg cctaccgcga tgtgaaggcc tgggtggtctg gtctgatgga 360
gaggccgtct gtccagaaag tcgctgccct gatgaagcca tctgcttgaa acggntgccc 420
tgtcaatcgg tgaatggaat aagccaagtc 450

<210> 42447
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-B3

<400> 42447

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ggagaaaccc tcctcttgct cgaccgtggg cagaagcccc cggccgacgt tcttgcccgt 120
cgaatcgctg ataccctct ccaatccctc accgatctag cgaccataac actaatactt 180

gtttattgat gatttgaaat gtgagctaga acgtgctaga acctgatggg attgtatggt 240
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 ttgacttttg agctatacat gtaatacatg atttaggatg ttagcgtatt ctcttgctgg 360
 aatgcatatg ttaaagagta tagatgtgta tgagcata 398

<210> 42448
 <211> 468
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-B5

<400> 42448

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 ctgcttcag gagaagttcg aagatggctg ggaaagtcgg tgggtcaagt ccgagtggaa 120
 gaaggatgag aacatggctg gtgaatggaa ccacacttcg ggaaaatgga atggagatgc 180
 cgaggacaaa ggtattcaaa cctccgagga ttacaggttc tatgccattt cagccgaata 240
 ccctgagttc agcaacaagg ataagacct ggtgctgcag ttctctgtga agcacgagca 300
 gaagcttgac tgcggtggtg gctacgtcaa gttgctgggt ggtgatgtag accagaagaa 360
 atttgggtgga gacacatcgt acagcattat gtttggacca gatatctgtg ggtacagcac 420
 caagaagggt cactatcc tgaccaagga tggcaagaac cacttgat 468

<210> 42449
 <211> 474
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-007-Q1-K1-B6

<400> 42449

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 agagacagaa gaagacgaag acgaagagaa agagaaaaag cccaagacca agacaataaa 180
 ggagactact tctgagtggg aacttctgaa tgatgtgaag gctgtatggc ttcgcagccc 240

aaaggagggtt actgatgaag aatactcgaa gttttaccac tcactagcca aggacttcgg 300
 tgatgacaag cctatgggtt ggagccactt cactgccgaa ggagatgttg agttcaaagc 360
 tttgtctttt attccccga aggctgcaca tgatctctat gagagttact acaacagtaa 420
 caagtcaaac ctcaagttgt atgttaggag agttntcatc tctgacgaat ttga 474

<210> 42450
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-A1

<400> 42450

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 ctgtgtttgc tgggtgttga gaacgtaccc gtgaaggtaa tgatctgtac agggaaatga 180
 ttgaaagtgg tgtcattaag ctagatgaca agcagagcga aagcaagtgt gctcttgttt 240
 acgggcagat gaatgagccc ccgggtgctc gtgcttcgtg tgggtttgac ttgttttgac 300

<210> 42451
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-G2

<400> 42451

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 atgtcaagga acttatattc agggagatat tagagtatca ttcttaactt ctcaaggatt 180
 acatgaatgg aactgagaaa acaaacttta tgtatcctag tgctgttgac aatttccgaa 240
 ggcaatttgc taacttggaa gaaaatggag gaaagagtgt ggcgcacaca gcttttatatg 300
 acacgaaac 309

<210> 42452
 <211> 339
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-G3

<400> 42452

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acgccgatgt cgggaagcag gtgcagcaga tgggtccggtt catcctgcag gaggccgacg 120

agaaagccag cgagatcagt gttgccgccg aggaggagtt cagcatcgag aagctgcagc 180

tgggtggagtc ggaaaaacgg aggggtgcggc aggagtacga gcgcaaggag aagcacgtgg 240

acgtccgcag gaagatcgag tactcgacgg agctgaacgc ggcgcgcatc aagctgctgc 300

gggcgcagga cgacgtggtg accgggatga atgagagcg 339

<210> 42453

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-006-Q1-K1-G4

<400> 42453

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gccagctcca aggacaggtt caggagggag ctggacggca tccagtgcga gatccaggcc 120

accgacccca gcgagatgag cctcgacatc gtcaggagcc ggaccaactg accgtcatcg 180

tccaataacg accaagcaac aacacattca cactatatac tcaattcaca ttgcatgcat 240

cgntattatt acatcattta tttcagaccc cncggccact gctaaccgta gtccataaga 300

gattcatcat ccgtggacta tgctcgatct cttncgtacg atacaattct caaatatttc 360

taattatttt ctaagtgaan tattatatat gtactaattc attcaagttt cattttactg 420

ggaccattct tcaagtcttt tttc 444

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<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-G5

<400> 42454

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 gcgtccgcga ggggggtgac gacggtcgcg ctctagacc tctctacga cttcggcgcg 240
 ctggagccgg ccatctcgcg ggagatcatg cgctgcacc accagaagca ccacgccacc 300
 tacgtcgaca actacaacaa ggcgtggag cagctcgacg c 341

<210> 42455

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-G6

<400> 42455

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 ctgctggctc tgcaggtgct catcgagtac ggccgcgcgg gggcctcccg cccgcccgtc 180
 acggccgcgc tgctcgccgc caactcactc gtctacctcc gccccggcgc gctcgacggg 240
 gtctgcct cgtcgcgcg cgtctccttc aaccctcagc tcatcatcga gtatggcgac 300
 ttgacgcgct ttttctgtc acccttctac cacttgagtg aaagtcacct cttctacaac 360
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<210> 42456

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-G7

<400> 42456

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 gctgctgcta agactggaaa aattatcaat atcaagaaag gacaattctg tgcgccttct 120
 gttatggtga actctacaga gaaagtaagg cttgctggga atccaaatgt gatggtctgt 180
 gagcgtggta ccatgttttg ctacaatgat ctatttgttg acccaaggaa ccttgagtgg 240

ctgagggaaa gcaactgccc agttgtagct gatgtaacac atgctctaca gcaaccagct 300
 ggaagaaagc ttgatgggtgg aggtgttgca agcgggtgggc tacgagaact aataccgtgc 360
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<210> 42457
 <211> 230
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-006-Q1-K1-G8
 <400> 42457

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 cgagttaaaa accaaggcca tggccaccat catgaaggac ttcgacaagc cagggaactt 180
 ggggcccgcc ggccggtccc tgggacctac cagagccatg gccatccaag 230

<210> 42458
 <211> 151
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-006-Q1-K1-G9
 <400> 42458

aacgaagcga acggactggg ctacttcgag gacctgcgag cggcgagcaa catggacccc 60
 tatgtgggcg tctgcatgag cgccgagacc aacatcatgt gtaagcgctg tagcaccgcc 120
 cttgcatgtc gtgtcggggt gctgcgggaa c 151

<210> 42459
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-006-Q1-K1-H1
 <400> 42459

gccactcttg ctctcaaggc gcttgggatc tgcattctct ctgctgagat cgggaggcaa 60

gcggcgtccg agcgccattg ggaggtgtac aggttcctcc tggatgacag caaggagttc 120
cccttggcaa gcagcctcgc taacaggaac tgtgtcgtcg atagggcgag gaagacgctg 180
atgggatgct acaactgaga cttgggtggg tgtcgatctg tatctgtctg caagaatcca 240
acgaagcagt gcaagtgcaa tgcaaggctt tccccatcca cagatgcatt tgcattgctat 300
gctgcttcct ggagttgtgc acgngatgg tttgaaacca gagttatgca cagcacagac 360
tgaaatgaat g 371

<210> 42460
<211> 331
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-006-Q1-K1-H10

<400> 42460

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gaagtatgaa ccacactatg attacttcac tgacaatgtt aacactgtcc gtgggtggta 120
tcgctacgct actgttcttt tgtacttaac tgatgtacca gaaggagggg aaacggtttt 180
ccccttggct gatgagcccg atgatgctaa agatgcaacc ttgtcagaat gtgctcagaa 240
aggcattgca gtgagaccac ggaaaggatga cgccctcctt ttcttcaacc ttaaccaga 300
cggcaccacc gactcggatga gcctncatgg t 331

<210> 42461
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-H5

<400> 42461

gaagagagaa acgcgagcaa ccagccatcg ccctatgggc gccatggctc gatccgtcgg 60
cctcgtcatg gcgccccctc tgctcctctg actcctcgtc ttgcgcgagg gcagtgcgag 120
gaccgtgggc gacaccgtgc aggacgcgtg cagcaagacc cagctcccca agatctgcgt 180
ggacagtctc gccgacaagc cggagagcca caatgcgacg ccgcgcaagc tggcggagct 240
gttcatgaac atcgcggccg aaaaaggatc cggtatggcc acctttgtgc accgtaagta 300

cagcgacaag gaggacagcg acatattcaa gtgctacgac agttgctccg a 351

<210> 42462

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-H6

<400> 42462

ggacgcgggtg gacctgggct tgttcccagt tcattactgc cttttgatgt ttcggttgta 60

cttcgtgggc catactggat acgcattata tategcaaga aattttctgt tgacatgcgc 120

tgctttgctg gggatcaggt ttggtccag ccagctactc ctctaaagg tggaccttca 180

gttggtggat cgttgccatg cccacagttc cggcctttca taatggaaca tgttgctcag 240

ggctctaatg ctcttgaacc caacttcatg aatgctacac aggctagtgg acacttaaat 300

aacaatgcag gaggccaca aactgtcct agtgcaaac gtttaaatgc taccctgggt 360

gtttctatgg tcaggccaac atctgggtgtt gctaaccatg tagcagccag tttgagtcga 420

<210> 42463

<211> 375

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-006-Q1-K1-H8

<400> 42463

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gttcctgttg ttgttcggtt ggaaggcacc aatgtagacc aaggaaagag gattottaag 120

gaaagtggaa tgactttgat cactgcagaa gatcttgatg atgcggcaga gaaagctgta 180

aaagcatccg tcaaataact agtgataaaa tgtgaatttt tttttttaa caggggtaca 240

agatgagcag tgctctttta cggatttcga tttggagcag aagtcgtgaa ctgcaacgtt 300

tttgaagtag ggttattttg gccttgtnnt gctgataaat gttgccagt ccaaaaattg 360

tggctctggt ttaat 375

<210> 42464

<211> 394
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-006-Q1-K1-E6

 <400> 42464

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 tgcagacaac tcctggagta agaacagatc atcttcatct agcgcttggg gcgctcccag 120
 tggaggagct ggcggccgag gttcttgggg aaagagcaac gaggatggct ggaactcagc 180
 gggaggatca gccaaagaga agcctgcatg ggggtggtggg tcagaagcgt ctaccaagaa 240
 agaggacaaa ggtggtgagg ggaacgggag ccaaggagga cgtggtgtca gttcctgcga 300
 taaaggggca gatgatgcat ggaacggcaa cacggtagt gatattgnga gtggtggatg 360
 gtaagatttt cgccaaaata atatgaactc tgtc 394

<210> 42465
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-006-Q1-K1-E7

 <400> 42465

 gtgcgagcat atccacggcg atggaggcga gagcgccat gagctggtac tgcggctccc 60
 ttctggccgt ggccatcgcg ctgttctgt cctgtccct cggcgtgcgc gccgccggcg 120
 ccggcgccgg cgtcgacatc aaggtgtcgt gtgcagcgac gccggaccgg gacgtgtgcc 180
 tacgcgcgct ccaggcggac agcgactcca agaccccgcg ggacctggcg gaggcggcgc 240
 tccgcgcggc gacgaccgcg ggcggcgcg cgggcgacta cgcgcgccac gagatggacg 300
 tggatgaagga caacgacatg tggcagtgcc tgaacgagtg cgccggggag atcgaggagg 360
 cgcttgacc acctggacga caccgagggc 390

<210> 42466
 <211> 465
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-006-Q1-K1-E8

<400> 42466

ctcttcacag gtccacttcc ttggagttga actcaagcaa tagaataggt caagggggccg 60
aaattactct tgagaggagc ttgactacca cttcagctag cagcagggtca aatagaagca 120
agattgacaa ggagcctgca gtcagtagaa acaagcagaa caatagggtt gcaattttca 180
gagatcgtga gtcagagcgc aaggatcctg attatgacag aagctatgac aggtatatgc 240
aaagatttga tcttggtatt ggatttagtg gcggcccata cacaattcaa cccctctata 300
cccctgctgt taactacaac actgaattcc cccagcttgc gtcagcacac cgatcacctg 360
ttgctgtcga acagcaacct cgtccaatag ctcagcacat gcctgcatca tggtcggtgg 420
ctcaagcatc taatgcaatt ggctatgggc caaatggtgt catgg 465

<210> 42467

<211> 349

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-006-Q1-K1-E9

<400> 42467

atcgcgcgca ggagcggatc gccgccgcag gagagcggtc cgagtccgaa tacgtacggg 60
atggtggagg cgccggccgg tctgagcgcg gcggcgccag tgagcgcgct gccgctgcag 120
gtggatctcc tgcagctgcc gccggaggtg cccgcgccag gggatcccgc cctgcgcggc 180
gtcctcgaca gcctcttcgc gcattggctc tcgctaccga acaccgncgt gctgctcgcc 240
agcctcgtgc acaaggccaa ggccagcggc ggcggcgccg tggcggtgt ggctgggatg 300
ctgccctcca tggtgctgca ggggggaacc ggcgtgccgg ctattttcc 349

<210> 42468

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-F1

<400> 42468

ccctcgggtgc cctccctctc ggcggcgggc gctcaagtcc ccttcctctc cggcgcgcca 60

aatggcaggc ggcagggttg cacatgctac cctcaagggc cccagcgtgg tgaaggagat 120
 cttcattgga ctgaccctgg gtctgatcgc tggaggtatg tggaagatgc accactggaa 180
 cgagcagagg aaaactacat ccttctacga catgcttgac aagggccaga tcagcgtcag 240
 cttacatgag tatttgcgac atgtcatctc agatgatgaa cattatccag a 291

<210> 42469

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-F10

<400> 42469

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 tgccctcgtg cgcgggtgga gcggagggcc actcatggcg tcagggtgga ggtgcgcgcc 120
 gccgaccggg cgggcttgct atcggatttc accaggggtgc tcggggagca cggcctgtcg 180
 ctgctgagag ttgagctcaa gaggcacaag gacgaggcct tcggcatatt ttacctcgtc 240
 acggacaccg gaggcgaggt gcgcgctgag tcgttgcgcg ccgtgcaggc gagggtcgcc 300
 gagatggata tctcgctcga cgttgtg 327

<210> 42470

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-F11

<400> 42470

cggacgcgtg ggtcacgaca agatggcgtg cacaacaat gcgatgagag ccttgttctt 60
 cctgggtcctg ttctgcatcg tgcattggtga gaaggaagag tcaaagggca tctatgcgaa 120
 agcgtccggg cctgggtgggt ccttcgacat caccaagttg ggcgccttcg gcaatggcaa 180
 gacagacagc acgaaggctg tacacgaggc atgggcatct gcgtgcggcg gcaactgggaa 240
 gcagacaatc ctcatacca agggtgactt ccttgtcggg caactcaact tcacaggccc 300
 ttgcaagggc gacgtgacca tccaggtgga tggcaatctg ctggcgacca cggacctaaa 360
 ccagtacaag gaccatggta attggatcga gattctacgt gtggataacc tgggtca 416

<210> 42471
<211> 282
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-006-Q1-K1-F12

<400> 42471

cgcgtccgga gcggcatttc ttataacaca ggtgttcgcg ttgatgggat acctcgctaa 60
taacaggatg gggttgggag ccgtccttgc ggcgctcgtc gaccgcggtt cgtgcggggc 120
cccgaatgtg ccacccggtc ccaacatcac caccaactac aacggcaagt ggctcaccgc 180
tagggccacc tgntacggtc agcccaacgg tgccggcgct cctgacaact gcagtgcgtg 240
cgggatcaag aacgtgaacc tgtcacccta cagcggcatg ac 282

<210> 42472
<211> 416
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-006-Q1-K1-F2

<400> 42472

ggagagcact tggcattaga gctcaataat tcggttcttt tcttctgcaa ggcaaaaatg 60
atggaagatg ctctttgcac ttataagtgt atgagagagc aaaatatcgg acccacatct 120
catacttttt gtcatatgtt gtgtgggttat tcttcaatgg acatgcttag ggagatcacc 180
atgctgtggg gagaaataaa gcgcagacat gaatatggag agctagattt gaatagggac 240
ttgcttgata gcttggttnt gaattttctt aaaggtggat atttttcgag ggtgatggag 300
atcattagtt acatgtcaaa acataacatt tactgtgaca aggggaaata caggcgtgcc 360
tttctgaagc tacacaagaa cctgtataag aatttgaatt cattgcatga caaaac 416

<210> 42473
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-F3

<400> 42473

ccacgcgtac ggagcctaaa tagtcggcat ttacattggt gtttcattat gaggtcgctt 60
agttaatgag tttgatgagg cctgcaagaa tgcaactggg gtcaacatca aaatggtgtg 120
cctcaacaaa aggcctggat attatgcata tatatacagc gacccaacaa agatcaacaa 180
ggagctcaac tggacagctc agtgtaccga tctcaatgcg cgcctatctt tcgcatgggt 240
gtagcaaatg tcgcattcgt ggtgctatgg gccaaaactca atata 285

<210> 42474

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-006-Q1-K1-F4

<400> 42474

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tacatgcata ttggcaagac aagaggcaga aaaggggaat gccacttatt cgacattttc 120
agtcggctat gtggaagatc tacgagcagc agctgcatga atgggaatca aaagtatgca 180
gaatgcagag ttcgtcaaatt gggtagcaag aaaagaaatt gcctcccaag cctgcattgt 240
ttgccttctg tttgaggcct cgtggactcc atgtaccata caagggggcca aagcagcggt 300
ctcataagaa gcttatgtcc acaggctgcc atagcttttc aagagagcat gatggctttt 360
accggcaagt atcaagcang agatacaatg aatgcactgg 400

<210> 42475

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-F5

<400> 42475

gcggccttct taccgtcgcg ttcaaattat cctcacaccc cgcagcatct ccacgccgtg 60
gcacgtcgtc gcgtcgcgtc gtctccgccg agaagatggt cggaccaggc ctctacaccg 120
agatcggcaa gaagaccagg gatctgctgt acaaggacta ccagacagac cacaagttca 180
ccctcactac ctacagctcc aatggcggtg ctgtcactgc tactagcaca aagaaagctg 240

acctgatctt cagtgcagatc cattcacaga taaagaacaa gaacatgacc gtagatgtga 300
aagcaaactc agagtcaaat atcattacta cagttactgt caatgagatt gcaacaccag 360
gactgaagac tatcttaaag ctttgctgtt ctgatcagag atctggaaag ttg 413

<210> 42476
<211> 242
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-006-Q1-K1-F6
<400> 42476

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tggcatggac tatatcctgg atatatacata ttctttgttc aatcagcatt gatgataaat 120
ggttcacgag ttatataccg atggcagcaa gcatcgagca gttcattcct gagccggatc 180
ctggcctttc taaaatgtgc ttatacattg gtgggtgctta actacttctg cattgggttc 240
ca 242

<210> 42477
<211> 431
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-006-Q1-K1-F7
<400> 42477

cttggtaaaa gaatagggca gttaaagat gaaccgaatg gttatgaaga cgatgttcta 60
gaagacgatg agatatctcc tagaaagcca gaagctaagg ctgtgtatgt taaagatgac 120
ttctttgatt cactctcttg caaccaatt gacaatggag ggaggaacgg aagagtgaag 180
ttctctgagc agaggaaaat agacaccgag acctttgggtg actcagcaag gcatcgacca 240
atgggcatcc gaggtagggc ccccggtggc ggcgctcgtg gtcgtggcta ttatgggtatt 300
agaggatatg gatatacggg tagggggcgt ggctactctt acccaaatca ccagccgtga 360
tacctcgggtg tctggaagca cactgaatgg caatggtaaa ttggcaaatt gcgtggtaaa 420
ctgagattat c 431

<210> 42478
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-F9

<400> 42478

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 catcgtgcat ggtgagaagg aagagtcaaa gggcatcgat gcgaaagcgt ccgggcctgg 120
 tgggtccttc gacatcacca agttgggctg ctccggcaat ggcaagacag acagcacgaa 180
 ggctgtgcag gaggcattgg catcggcgtg cggcggcact gggaagcaga caatcctcat 240
 acccaagggc gacttccttg tcggacaact caacttcaca ggcccttgca agggcgacgt 300
 gaccattcag gtggatggca atctgctggc gaccacggac ctaagccagt acaaggacca 360
 tggtaattgg atcgagattc tacgctgga taacctggtc a 401

<210> 42479
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-G11

<400> 42479

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 ctgcgctctg cttcgacatg accgtcggcg gcgccccggc gggccggatc gtgatggagc 120
 tgtacgcaa cgaggtgccc aagaccgctg agaacttccg cgcgctgtgc acgggcgaga 180
 agggcgctgg caagtccggg aagccgctcc actacaaggc ctccaccttc caccgcgtca 240
 tccccgagtt catgtgccag ggcggcgact tcaccgctgg caacggcacc ggcggcgagt 300
 ccatctacgg cgagaagttc cccgacgaga agttcgtgcg caagcacacc gtccccggtg 360
 tgctctccat ggccaacgcc gggcccaaca ccaac 395

<210> 42480
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-E4

<400> 42480

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agagcatcca tcggcaatgt cgaacatcgg gcagtccttc caggccggca aggetgagge 120

ccagggcgag taccaggcgg agcacgcggc gcagtgcgtc aaggacaccg ccgcagccgc 180

ggccgacagt gcgcagctgc agcagcaccg cccacccggc accgttgagc aggtggcgca 240

gacgggccag ggcgtggcgg caggcgtaa ggacacggtg gcgggcgcgg cggttggcgt 300

cacgaacacg gtggcgggcg tggcggcggg cgtcacgaac acggtcacgg gcgccgtggc 360

gggcgtcacg aacacggtga ccggcgcg 388

<210> 42481

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-C8

<400> 42481

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ctggctctcc atctttgtac agcttctctt ttcaataatc aagatgagcc gtgggtggtag 120

tgccggtggt ggtcaaagat ctctgggtta tctctttgga agcggtgagc cccccaaacc 180

agcagtggca ccagctgcaa gtgctccacc tgttgagaaa ccatctgctg caaagactga 240

tgcggccaag caggttgctg ctgtgggttac cagccaaacc aataactacc acatgggtga 300

tggtcataac actggcaact tacttac 327

<210> 42482

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-C9

<400> 42482

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tccatcctgc tcgccatggt gatgctggct gcgctattcg ttgttggttt gtgcaccacc 120

cccctcacct tccaggtcgg caagggatcc aagcctggcc acctgacct ccccccaat 180

gttgccacca tatccgacgt ggagatcaaa gagcacggtg gcgatgactt ctccctttacg 240
 ctcaaggagg gcccgactgg cacctggacg ctcgacacca agggccccgt caagtacccc 300
 ctttgcaccc gctttgctgt caagtccggc ggctaccgca tcgccgacga cgtcatccct 360
 gccgatttca agggcgacac cacctataag accacactca gcataatac aatctctggt 420
 gatgaattaa atttcaaaag agtcatcta gcgcacatgt 460

<210> 42483
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-D10

<400> 42483

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 ttcggcagga tcggaaggct ggtggccagg gtggccctgc agagtgaaga tgctgagctc 120
 gtcgccgtga acgacccctt catcagcacc gactacatga cctacatgtt caagtacgac 180
 actgtgcacg gacagtggaa gcaccatgaa gtcaaggatga aggactccaa aacccttctc 240
 tttggtgaga aagatgctgc tgtgtttggc tgcaggaacc ctgaggagat cccgtggggg 300
 tcgggtggtg ctgaatatgt tgggtgagtct actggtgttt tcac 344

<210> 42484
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-D11

<400> 42484

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 cagcatggcg cccagcagca gcatagcagt actgctgctc ctgctgctcg ccgtcgtcct 120
 ctccaacgtc cctcctcgg gcgccctggc ctctcgtcg tcgtctctgc tgcaccagtc 180
 gtctccgtct gagagtgaga ctgagaccga cagtagcagc ggagaatctt cgtcgtcgtc 240
 gtcgtcggag gaggaggagg ccggcgagaa ggagaaggag aaggagcaag agatggagaa 300
 ggcggtcgcg gcggagaagg ctgccagca agagctgctc aagtacgcca aggagaaggg 360

catcgtgtca ccgaccaacg gcaeggggtg gtacaaaggc atcggccggg agttcgtgga 420
cgcccacaac gagctccgcg cgcgcta 447

<210> 42485
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-D3

<400> 42485

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ttgtaggaca tattcacctt gacaaggggc atttagaaag gataaacatt agtactcaag 120
acatttctca aaaatgtcaa gaagtttctg ggagatttgg aaagaagaaa ggacaccttt 180
gccacatctt taaaaaaatt acttttgcta cttgtgattg ttcattcact cagatgccaa 240
tcgatggaaa gctacataag gttccatgtg tgcagtttgc tttttctgat gacattgtac 300
tatccgagtc tattgagaga gcagtgaatg tgatagctga ctctgtctgc tcagtgtttt 360
tagatacaat tattaanaagg tg 382

<210> 42486
<211> 120
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-D4

<400> 42486

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agtgggtggtt gaggtcactg agaacatgtt ggggtggcaag aaagttccag ttgttttggc 120

<210> 42487
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-D5

<400> 42487

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agtgatgaag cgaatcggtta cttgatagaa gcatgtgcta agtatgatgt gaaatgtcca 120
 cctcccaaaa cgacatcacg gttgcttgac aagttagttg ggcatcttctt ggaggagaca 180
 tgtgtgaatc caacatttat catcaatcat ccagagataa tgagtccatt ggcaaagtgg 240
 catacgtctc gacctggatt gactgagagg tttgagctat ttgttaacaa acatgagggtg 300
 tgcaatgcat acacagagtt aaacgatcct gttgtgcaga gacaacgggtt tgaggagcaa 360
 ctaaaggatc gtcaatctgg tgatgat 387

<210> 42488
 <211> 246
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-D6

<400> 42488

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 tggcgacccc cgtgacgtt cggcgccatc ccggccgccc tcatcgcgct gggcgcgctc 120
 gccatcccg acaccccggc gtcgttcgtc aagcgcgggg acacggccac ggcgcgcaag 180
 acgctgtccc agatccgggg cgtcggcaac ttgcgcaagg agttcgacaa cctggccgcc 240
 gagagc 246

<210> 42489
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-D9

<400> 42489

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 ttcggttcgt gcaccacccc actcaccttc caggtcggca agggctccaa gcctggccac 180
 ctggttctca cccctaacat tgccaccatc tctgacgtgg agatcaagga gcatggcggc 240
 gacgatttct cctttacact caaggagggc ccagctggca cttggacgct cgacaccaag 300
 gccccgtca agtaccacct ctgcatccgc tttgtacca agtctggcgg ctaccgtatc 360

gccgatgatg tcatccccgc cgatttcaag gccggcacca cctacaagac cactctcagc 420
atctgatgag cctgtgatga gtgatgacga ataata 456

<210> 42490
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-E10

<400> 42490

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gtgccggtgg tgggtcaaagt tctctgggtt atctctttgg aagcggtgag cccccaaac 180
cagcagtggc accagctgca agtgetccac ctgttgagaa accatctgct gcaaagactg 240
atgcccggcaa gcaggttgct gctgggggtta ccagccaaac caataactac cacagggctg 300
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<210> 42491
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-E11

<400> 42491

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cgtactccac gttcctgaag ctctgcagg acaccaaggt cgcgggagag gcgaatcagc 180
tccggtcggc gacgctactg gtcgtccccg aaaaacttgc caagcctctg gcgtcgctgc 240
ccgccgataa ggtgcggccg gcggtggaga accacgtcct tctcagttac ttcgacccca 300
tcaagctgga cgagatgaag acacgcaccg tcatccttcc cagctgctc tccgtcaccg 360
acaagaaact cggcgtcctc aactacacca gggccgacga cgggcagatg tacttc 416

<210> 42492
<211> 440

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-006-Q1-K1-E3

 <400> 42492

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 gggcggatgg cgcacatcgc cttcggattc acacaccacg ccgtcgcgcg cgcataaacc 180
 atcatgtcat atgcatgcat cgcttctctt ccttgctcga ttaattttca tgcgtccaat 240
 gattcatatc tctatatgca tatctctctg ctctgccttg ttggctggct cttctcatca 300
 ttccctagca catcgcatag tattagttgc atgcattata ttgatgatgc aggtatttcg 360
 tcgagcaaca aaggcgact atcaaattgt tttggaatac ccaaaattag tgaattaagg 420
 ggaactgggt ataaaaattt 440

<210> 42493
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-006-Q1-K1-C7

 <400> 42493

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 caccatgtct ttcaccggca cgcaggacaa gtgcacggcg tgcgacaaga ccgtccactt 120
 catcgacctc ctcacggccg acggggccat ctaccataag acatgcttca agtgcagcca 180
 ctgcaaaggg gtctctcga tgtgcagcta ctctccatg gacggtgtgc tgtactgcaa 240
 gacccacttc gagcagctct tcaaggagac cgggagcttc tccaagaact tcacgccagg 300
 tggcaagtca tcagacaagg gtgaactgac aagggcccca agcaagctgt cgtctgcatt 360
 ttctggtacc caggataagt gcgcagcat 389

<210> 42494
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-006-Q1-K1-B11

<400> 42494

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gcacctcgcc ggcattccagg accacgtcaa cttcaccatg cagcaagcat acttcaagtg 120
cgcatatgat tgcttcgatc ggcgcggtac tcaggaagcg atcaacaatt gtgtggagaa 180
ttgtggatg cctgtccttg ctgtcaacaa tgtttttgag agtgagatgg ccaagtttca 240
ggaacgggtg aaccgggtcat tgatgggtctg tcaagataag tttgaagctg ccaagctcca 300
gaagatgaaa acagatgcaa ctcatgaact ggaatcctgt gtcaacagat ctatcgatga 360
cagcatcagg gccctcccat atgtgggtgca gcagatgaag tccaccctca atatcaatta 420
gaggcattat tacctttagc atatgaacca gatata 456

<210> 42495

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-B12

<400> 42495

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cacgccaagc gagggccgca tctagatccg cgccgccgag ctgacttgac tattgcaagt 120
ttgcaaccca ccgtcacgcc ttcttctccc cccgcgatct acccggcccg ggcgccgttg 180
ctgctactgc tattactaat actactaccg cgtcgtagcg gaggcaggga cttgaggagc 240
gggtggggtg cgatggccgc tgcggggagg aatgcgggag tcctcgcgct cttcgacgctc 300
gacggcacc ctcacagcgc gcgcaagggg gtgacgccag agatgctaga gttcatgaag 360
cagctgcgcc agcatgtgac agtgggcgtg gttggcggat ccgatctggt gaagattacc 420
gagcagctcg gcagtacagt tattactgat tatgat 456

<210> 42496

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-B4

<400> 42496

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 cggggccgcg gtcgtccctc tcgccaggcg tatgctccgc ctccgcaccg cccctgcttc 120
 gagccccacg tctcgtctc gagcttcgcg gtccctctcc gcctctctc caagaacaca 180
 tagggactat tgtgaaggta ttgatttggg atttctggag cttattatca gtcgtcgtta 240
 cgtattcgca tgtcactggg gacggagtag cagaataaat gaatgaaatg atcattcaag 300
 tgctcagttc agccactgtc tattttttta aaaaaaagct cctgacgagg ccattttcga 360
 actggacacc ctctatagag aagacct 387

<210> 42497
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-006-Q1-K1-B5
 <400> 42497

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 ccatctagat ctagtcaagg cgtgctagct ctcaaagcct taaagcttac agactcgttt 120
 atggatcttt accgtaacaa tggtttaact ggggagaagt acaacctctt ttctgtagct 180
 catcattgta ctagtttgta caaatatttt ttatacaatg attttttgct gttgcagggt 240
 aaggggagaag aaattgtcct gggttgatat ctttgaggag ataccattaa aaagttccaa 300
 ctacgcgctt gtcagtgcct ttatgaaaga gctggaacct gagtcacctg taaccacgtg 360
 tgacctgtac cgacttanat tgtaaaccgc cccctttatg aaaggaact 409

<210> 42498
 <211> 342
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-006-Q1-K1-B6
 <400> 42498

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 ggaggcgggtg gcgaaggctg tggcgccggt ggccgccggc ccgccggcgc gcgtgtcgggt 120

ggccggcacc agctacggcg ggttcgtggc gtaccacgtg gcccggttgc tgggccccga 180
cgccgtggag cgggtgtggt cgccagctcc gacctgtca aggccgacgc cgacgaccaa 240
gccttgctcc gccgcgccgg cgccgagcgc gtcgaggacg tcctgctgcc gcgctccccg 300
gaccggctgc ggcgactggt gcagctcgcc taccaccgcc cg 342

<210> 42499

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-B7

<400> 42499

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gtgaagctac cccacttteta ttgctgcagt ggagaaagag gaaacccaag cgagtcgaac 120
tcataaatgt tttgttttcc tactttgctc actatgctac gtctgaaatc tggacatcgt 180
aataccaatg aaataaattg tcagatcgct cttggtattc accttgttct ccttccaagc 240
attgaatcaa tacacactta ctctagtttg aattcaaagt gtaagaccat catcaagagc 300
ctttctaatt ttctgatatc atttgagtaa aacttatttt ttat 344

<210> 42500

<211> 290

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-006-Q1-K1-B8

<400> 42500

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gaagtgtgac cgtcttccac cggccccgag tccaaaggcc tttattttta gaagaaaggt 120
gactactaca gataccttgc tgagttcaag actggagctg agagaaagga cgctgctgag 180
aacaccatgg tggcatacaa ggctgcccag gacattgctt tggctgagct tgctccaact 240
caccctatta ggcttggact ggcactcaac ttctcagggtg tctactatga 290

<210> 42501

<211> 415

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-006-Q1-K1-B9

<400> 42501

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 cgtcggcacc tccgcttcaa gatgcagatc tttgtgaaaa ccctgaccgg caagactatc 120
 accctcgagg tggagtcgtc tgacaccatt gacaacgtta aggccaagat ccaggacaag 180
 gagggcattc cccagacca gcagcggctc atcttcgctg gcaaacagct tgaggacggg 240
 cgcacgcttg ctgactacaa catccagaag gagagcacc tncaccttgt gctccgcctc 300
 aggggaggca tgcacatctt tgtgaaaacc ctgaccggca agactatcac cctcgagggtg 360
 gagtctctg acaccattga caacgtcaag gccaagatcc aggacaagga gggca 415

<210> 42502
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-006-Q1-K1-C10

<400> 42502

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 caaggcggag aagaagatcg cgtacgacaa gaagctgtgc agcctgctcg atgagtacac 120
 caaggtgctc atcgccctcg ccgacaacgt cggctccaag cagctccaag acatccgccg 180
 gggcctcagg ggcgactcgg tgggtgctcat gggcaagaac acgctcatca ggcgctgcat 240
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 cggcaacgtt ggctcattt tcaccaaggg agacctcaaa gaagtgcgcg aggaagtcgc 360
 caagtacaag gttggggctc ctgctcgtgt tgggtctggt gtcctgttg atgttgctga 420
 gccccctggc aacactgggc tggat 445

<210> 42503
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-C11

<400> 42503

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gcaggaggcg ctggacgcgg acatccaaga ccgcgtcatg aaggagcgcg agatgcagag 180
ctacatcgag gagcgcgagc gcgaggtcgc cgagcgggag gccgcctgga aggccgagct 240
atccccccgc gagggcgaga tcgcacggca agaagccagg ctgaagatgg aaaaggagaa 300
tttagagaag gaaaaaagcg tcctcatggg aacagcatcg agccaagaca accaagatgg 360
agcccttgag atcactgtca gtggtgagaa gtac 394

<210> 42504

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-006-Q1-K1-C12

<400> 42504

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ggccccggga agtgggtcgcc ggaggtgagg aagacgtaca acctgctgga cacggtgagc 120
cggcacacga tccaggtgta cccgcggtca tggacggcaa tcatgctgac gttcgacaac 180
gcgggcatgt ggagcgtgca ttccaacatc tgggagcggg actacctcgg ggagcagttc 240
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gccctccgct gcggcaaggt cgtggggctg tcgctgtcgn cgtcctacgc ccccgcgcg 360
taagacgacg aaggcctcgt tttctcctcg tggcttgacc atccaatcca aactcataag 420
aacaaatcgc aaagaagcgt agtgaagggg aacaaatgaa t 461

<210> 42505

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-C2

<400> 42505

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cctcaaggcg ggggatcata tctactcctg gagggcggcg tgggtctacg cgcatacagg 120
aatatatgtg ggcgatgata aggtgatcca tttcacaaga ggaagaggac aggaggtcgg 180
aacaggaact gtcgtcgata ttattcttgt gagttccacc ccaaaacgaa gcaacacgcc 240
ttgcccggtg tgcaccgacg aaaccagcga cagcagcaca gagacgaacg gcgt 294

<210> 42506
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-C3

<400> 42506

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atgcttttga gaatagatga cattgtcagc ggtatcaaga agaagcaggc tcctggagcc 120
tcagctccca agcaacccca aattgaaact gaggggtgatg ccgacaatga gcagatgatc 180
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gaatagcact ttgaatagag ttcattttat ttgagtgttg gtggttagcc ttaggtttta 300
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gcttgtgggt tcc 433

<210> 42507
<211> 181
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-006-Q1-K1-C4

<400> 42507

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gtggggcagg cccaggacgc cgtgaagctc ttttaaccggc tgaccttcga cgatgtccac 120
gtgaacgata tctcgtgtaa cgactacctg ggtgtgactg tggggaaaca caccacattt 180

<210> 42508
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-C5

<400> 42508

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 cgtcgagaaa aagagtcaag aggctcttga gctgctgctt aatataacgg ccgatgccgg 120
 ttccaactgt cttccaatg tgggtgctgat tagcacaatc attgatggct tctttaaaga 180
 aggtgaagtc gacaaagctt acttcctggt tgatgaaatg attggccagg ggtttccacc 240
 tgatgttgtg acatacagct cactcattga tggcc 275

<210> 42509
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-C6

<400> 42509

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 ggaggtgttc tcccgcatcg accacaagtt cgacctcatg tacgccaagc gtgccttcgt 180
 gcactggtat gtcggtgagg gtatggagga gggcgagttc tctgaggccc gtgaggatct 240
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 tgatgatggt gatgagttct agaagtttcc tgatgc 336

<210> 42510
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-B1

<400> 42510

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 accgccgctc gcccgagcac cggttccccg ccgcctacga cgacggcttc gcggcgctcc 180
 gcttcctcga cggcggggccc gggcccgacc ccgaccccgg cgcgatcgcg ggcgccccgc 240
 cgatecgacgc cgcgcgctgc ttctcgcggg gggacagcgc cggcggtaac atcgcgcacc 300
 acgtcgccg ccgctacgcg ctggaccctt 330

<210> 42511

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-005-Q1-K1-H4

<400> 42511

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 atgaagaagg tcctctgcgc cgcctcgtc gccgcgcct cggccaccgc cgtgctggcc 180
 tcggtcgcct ccgaggcgcc ctccgaggcg cccgcggcg cggccggtgg tgcggctggc 240
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 ttctcgcct actacctnca ctgagcgacg acgcgcgggg cggcaacggt gggatgcac 360
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<210> 42512

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-H5

<400> 42512

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 caagcccgcg gcttcgtcga agccgaacct gttcgactcg gactcggact cggagtccag 120
 caataagccg gcgaacaagt ccggggcgctc gtcgtaccag gccccgcgc acgccaagaa 180
 gcggtacaag gacgggttcc gggactcggg cgggctggag aaccagtcgg tgcaggagct 240

ggagcactac gcggcgtaga agggcgagga gacgacggac gcgctcgccg gctgacctgc 300
catcgccgag gacatcaggg agggacccag cgacacgctg atcacgctgc acaagcaggg 360
ggagcagatc agccggacgc acgagaaggg cgctcgag 397

<210> 42513
<211> 448
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-005-Q1-K1-H6
<400> 42513

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accggtgggc ctgagattcc cttccacccc ggtagggagg acaagcctca gccccacct 120
gagggccgccc ttctgatgc cactaagggt tctgaccacc tgaggcaagt ttttggcaag 180
cagatgggct tgagcgatca ggacattggt gccctctctg gtggccacac cttgggaagg 240
tgccacaaag agcgggtctgg tttcgagggg gcttgacta caaaccttt ggtctttgac 300
aactcttact tcaaggaact tctgagtggg gataaggagg gccttcttca gctcccaagt 360
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gagaaggctt tctttgatga ctacaaag 448

<210> 42514
<211> 466
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-005-Q1-K1-H7
<400> 42514

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tgctcaggcc agtgggttcga ccggtttact agttatcaat gataatgaag agctttacaa 120
gatggtttgc ggtgagaatg acacctccat taatgtgaca atacctgttg tcatgatacc 180
acagtcagca ggaaagaagc tgaagaactt cttgcatcat ggagcaagtg tggaagtgca 240
gctatattca ccaaatcgac caactgtgga cctttcagca tgcttcttat ggataatggc 300
tgtaggcacc atagtctgtg cttcactctg gactgaattt gttacatgtg aacagggtga 360

tgagcgttat aatcagctga ccagaaagga tggacctgac acgggaataa actacagaga 420
agattaagag gtcttcgaga tcagcgcgaa aggtgctttt attttt 466

<210> 42515
<211> 474
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-H8

<400> 42515

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ccttcggtga tcaataccga gctaccgatg cagttctgaa ggggcctggg aagctgaagc 180
tagtttttga gggaaaagaa gaacagattg atctggaggt attcaacttc actggtgctg 240
gaggagtgc cttgtctatg tacaacaccg acgagtcaat ccgagctttt gctgaggctt 300
ctatgacaac tgcttatgag aagaaatggc cactctacct tagcaccaaa aacacaatcc 360
tgaaaaaata tgatggcagg ttttaaggaca ttttccagga ggtctatgaa gctgactgga 420
agtccaaatt tgaggctgct ggaatatggt atgagcatcg tcttattgat gaca 474

<210> 42516
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-H9

<400> 42516

ggaacagaga ggatgcctcc accatcgatt gaagacttcg tegtctgatt tacctctgca 60
cggggacatg gaacgccacc gggagtacct gtgcatgggc gaagatgttc caggcaagaa 120
gatcctcggg ggcattgcaa ttgctcaccg gagttgggag ggtatgatag gtctgcaccg 180
ttgcgtggcc gacccttgca ccgttgctgt catctgggta ctacaggata aggcattatga 240
aggatgtcgc gatgagttca tgagaagtct agaccgccgt ctcccagtca actatggttg 300
ctggatcggt gtctatgcat gatgtaatta tttagttatt ttgtacagaa ctctattat 360
gtagtaaaga cattcgtttc tattccatga gtcattcatat gtgtgagact tgatcctagc 420

acacatttga ttcgcgcccg ggtttgtccc tta

453

<210> 42517
<211> 210
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-A1

<400> 42517

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gcggcgagcg gtggccacga tgacgactaa taagcccctt ctctcctcg ccctggcgctc 120
cgcgctcctt ggtgcggcgc cggccgcgcg gaacgcgccc ggcgggggcgt tcagcaactg 180
cgtggcgatc aaccagcaca gctactcgct 210

<210> 42518
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-A10

<400> 42518

ccaaccttga ctggtacaaa ggcccaaccc tgcttgaggc tcttgaccag atcaccgagc 60
ccaagaggcc ttcagacaag cccctgcgtc tgccctcca ggatgtgtac aagattgggtg 120
gtattggaac tgtaccggtt ggtcgtgtgg agactgggtg catcaagcct ggtatgggtg 180
tcacctttgg tccaactggc ctgactaccg aggtgaagtc tgttgagatg caccacgagg 240
cgcttcaaga agctcttccg ggtgacaatg ttggcttcaa cgtgaagaac gttgctgtca 300
aggatctcaa gcgtggggtt gtg 323

<210> 42519
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-A12

<400> 42519

ccagcaccga cctcggagct gatactgct tcgtctgcat gagtgatatc gtggcggcac 60

acacgcatct tggtcactcc tatccatggg tccaattacc gaccgaaaag tctgggtcct 120
 cggccaattt ctcggtcccg gtcagctagg ggaagcattt ctcggtcccg taccacattt 180
 taaaaatatg aaagtcaatt ttttttggtc aaaacgaaat ttccgaacag tgaatcgaaa 240
 aagtgaagcc tgttccttac tatgttcaag gatttttgct ctctccatcc cacaattttc 300
 gagcagtatg tcagcttaga attaagatta tttgggtgct catcattgat gcagattaat 360
 ataatgaggg ccagaacatg gcacatgtta cttttgacaa actaaaaatg aatcatcact 420
 gattcttaaa 430

<210> 42520

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-A3

<400> 42520

gtggagcaag ctgttgaat gccatcagtt gtccaaatat tcaaggcca tagtgaagcc 60
 ttgtttgggg ataatgagag tagtgtcttg agagatttgt cctccatgag acgattagtt 120
 gttgccaccg gaggtggtgc tgttatccga ccaattaact ggagatatat gaagaggggc 180
 ctatctgttt ggtagatgt gcccttggat gctcttgcta ggcgatttgc taaagtggga 240
 actgcctctc gtctcttctt ggaccaacca tctggtgatc cgtacgcaat ggcttttttt 300
 aagctcagca tgcttgaca gcaaaggggt gatgcttatg caaat 345

<210> 42521

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-006-Q1-K1-A4

<400> 42521

cggacgcgtg ggcggacgcg tgggacgacg cgtgggagaa ggcgtagtag tttcgtcgga 60
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 aagcaggaac gatccatcat ctgctgttgt aattttagtc tgttgccagg aggtagatgt 180

agcaaggcag agctgtaaga acccattatt attgatcttg tagcagtctg aggtttttgga 240
aattgtatca tatactacct ccgttcttga atatttgtcg cctattgttt caaaaaacga 300
cacataaaaa aattaaataa gaatggagag tatttttatg ctgctgctat gcacggctca 360
aaaaaaaaan nnnnancnan nagnanaata aattttttta acatcatat 409

<210> 42522
<211> 267
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-006-Q1-K1-A5

<400> 42522

ccaaggctcc ccaaagatag catagcagca gctctcacia tagcaaaaac caccatccgt 60
cgtcgccaac cgtagcaaga acatcaccac cgcccagcaa taatggcgca gagcatgagg 120
attgtggcgc tggccctggt ggccctgctg gtggtggcng ctgcccgcgc cgtggccacc 180
gcgtacggct gctacgacga ctgctacgag cgctgcgcca acggcaagaa agaccccgcnc 240
tgcaccaaga tgtgcaacca ggcgtgc 267

<210> 42523
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-A6

<400> 42523

acagactgaa aatatgaaac aaattcagga tgctttgtca gctcctctcg gagcttctgc 60
tgatttcgat gaggatgaac tggaagccga acttgaagaa ctggagggag cagagttgga 120
atctcagctt ctggagcctg ttgcagctcc tccggtgcat ccagtgcatt cccagccaa 180
caagcaacca gcgcgccctg ctccacagaa agctacagct gaagatgatg agcttgctgc 240
actgcaagct gaaatggcat tgtgatcagg ttccaatta agaggtggaa tgtgtatatg 300
aatggcggtta tgctaccaag atgaaagttg agtcaggatt tattatattt gccatgtgta 360
taatcttggg ggatatttgg caagcaggaa aaaagctgct ccaagccagt gtttggttca 420
atgattttgg g 431

<210> 42524
 <211> 139
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-006-Q1-K1-A7

 <400> 42524

 gggacgcgtg ggaaaaaat aaaaaattaa attttattaa aagaaaataa aaaaaaaaag 60
 gatggagaat aaataaaatt aaagtattaa aaaaattata aatccataaa taaaattaca 120
 tagagtaact taaaataaa 139

<210> 42525
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-006-Q1-K1-A9

 <400> 42525

 cccacgcgtc cgagcagaga agagcgcgtg caaccaccac attcatataa ttaataagca 60
 aggggtagag aagaggcaac atgggcacaa agatgaagaa ggggatcctg aagccgttcc 120
 gctatatctc aaccatcatg gatggtaagg aggctgaaat gcaaattggg ttcccgacgg 180
 atgtaaaaca cgtggcacac atcggttggg atggctcctg ctccaccaac aacaataaca 240
 acaacagcaa caacaatagt ggcgggagcac ctagctggat gaaggattac cactcggcac 300
 cgcttgactc gtctcttttt aggagtgaga gtgggggcac ggctgctgca aatccctggg 360
 cttctcaaga gatagtcatt gatggagcaa gcgtcggaga aacctccttc agggacacga 420
 aaagcg 426

<210> 42526
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-005-Q1-K1-H12

 <400> 42526

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ccggttttgggt ttgggggtata cgtctgaaag gactccgcga ttttgccctgg tctgttgatt 120
 cacttgtcag ttgctgggtct gtgtccgtat ttttaattgga agggcctttgc aacttcgtca 180
 ttcttcatgc tctgtgtggg ttttcgaaat attcttttta gaagggggag gcatggtgca 240
 ataaaatgaa atagagagaa attgcagcaa ttctttgtta tcttagcaac accttttctt 300
 cttccgagag cactatgtac aagggtgacat tataaaagat taagatagtg aaggccttat 360
 tttcgcgagg ctaatgtaca ttcattcttg aagtgttgca actcttttga agt 413

<210> 42527

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-G1

<400> 42527

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 ttaaggacgt ggtgatgaat atctcgcgcg tgcagaagct gacccccgcc gtgcagtgc 120
 cgcttttcaa ggccttcgtc gatgtcggcg acaggtactg acacctatcg ctcggcgtca 180
 agtgctccaa tgaggtcac accgacattc gaggcgccat catgctgccc aagctgtcga 240
 gagtgccag tacggatgcg ctactgggga aacttgatcg gacatccgga cactgtgctc 300
 tgcaagggtca ctcggcaa at gctgggtccaa catcggtgcg attgtgcc 348

<210> 42528

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-G10

<400> 42528

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 aaaataatga agagccgcag catggcatca tcggccgcgc tcttggtgct agccctcgcg 120
 ctagtggcgg ccaccgcccc acaggtagcg gaggcaaaga agaagagagc ggcggagagc 180
 ggcgaggcgg cggaggcgaa gaagatccag gacgacttct gctcgacgct gtgcgagggc 240
 aagaagggga cggacctggt cgtgtgcaag gagtcctgcg ctctctccca gcagtccaac 300

ctggtgctgt acggcaggat ccagtgcaag ggcaagtgca ccgagcagaa gggcatcacg 360
gcgccggcca tgaaggtctg ccaggaggag tgcgacaagg cgtacgtggt g 411

<210> 42529
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-G11

<400> 42529

cggacgcgtg ggcccccccc aaccagccat ggggttccccg gcggatcgcg gctcttagac 60
gcggaggagg agagagacag ggggagggga aggccgaggc ctaggaggcg tgggtgcagcg 120
cgcgagcgcg ttcgttcggc atggaacaga acgacggctc gttcctcgcc gtgcgacgcc 180
tctccggcgg cgccatccac caccatcgcc accactcttc gccggtgag gtcgtgggcg 240
tgtccacggc gtggatcggg aaggggctta cgtcgtgctg gtgcgcgcac gggacggaga 300
gcgacgggcg cctctccttc gatttgagtc ccattcagga agagtgttg cataggttgc 360
agaaccggat agaggtgcag tatgatggtt caaatctaga gcatcaaaaa gcac 414

<210> 42530
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-G12

<400> 42530

gaaccacagc caccgcgatg gcgcagatca tcgatggcaa ggccatcgcc gccgacgtcc 60
gccgcgaggt cgccgccgat gtggccgcgc tctcgtcagc ccacggactc gtgccggggc 120
tggccgtggt catcgtgggg agcaggaagg actcgcagac gtacgtgaac atgaagcgca 180
tggcgtgcgc cgaggtcggc atctgctcca tcgacgtcta cctcccggag gacatctccg 240
agaccgcgct cgtcgccgag gttcatcgcc tcaacgtga ccccgagtg cacgggatcc 300
ttgtccagct tccacttcct aagcatatca acgaagagaa gatactgagc gagatttcca 360
tcgagaaaga tgtggatggc ttccatcctc tcaacattgg caagcttgca atgaaaggca 420
gagagccact gttcgtacca tgtacgcc 448

<210> 42531
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-G2

<400> 42531

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tcatcaaatt gggcatgttg agcattactt cagggggcaaa tccagtgtcc gttaagaagg 120
gcattgataa gactgttcag aaattgggtg aggaacttga gaagaaatca aggccgggtca 180
agggtagtgg ggatattaaa gctgttgctg ccatatcagc tggaaatgat gaatttggtg 240
ggactatgat cgccgaagct attgacaagg ttggccctga tgggtgtcctc tcaattgagt 300
cgtcatcgtc gtttgagacc acagttgaag ttgaagaagg gatggagctt gacagaggat 360
atatctcccc tcagtttgct actaaccttg aaaaatctat tgttgagttc gaaaatgctc 420
ggattcttgt cactgatcag aagatatcat cgattaaaga aattat 466

<210> 42532
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-G3

<400> 42532

gctacccgca cgttgtatcg cgatgctatg cttttaatgt tggcaactcc ttggcccggg 60
gctggggcgg gtctgactgg gcaccggcgc cttcagtac gtggaccggg gcggcgggtgc 120
tgtcgggatg agggcgtacc acgagcgggt gatggaccac tacaacaacc cgtggaacgt 180
cagttccttc gacaaggagg accccaacgt cgggtactggg ctggtcggcg cgccgttctg 240
tggcgacgtc atgaagttgc acattcgcgt caactaggac tcccgtaaaa tcgtcgacgc 300
ctgctttaag acctttggct gctgcttcgt catagcgtcc tcgtgcgttg cttctgaatg 360
ggtgaaggga aaa 373

<210> 42533
<211> 403

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-005-Q1-K1-G4

 <400> 42533

 gggggcgccg gcggcgggga ggagctctcg gtggaggagc gcaacctgct gtccgtcgcc 60
 tacaagaacg tcctcggcgc ccgcagggcc tcgtggcgga tcctctctc catcgagcag 120
 aaggaggaag gccgcgggaa cgaggcgac gccgcataca tccgcgccta ccgctccaag 180
 atcgaggccg agctctgccg catctgcgac ggcctcctcg cgctcctcga ctcccaccta 240
 gtcccatccg acggcgggtgc cgagtgaag gtcttctacc tgaagatgaa gggtgactac 300
 cacagggtgcc ttgctgcgtt caagtcaggt gcagagagga aggatgctgc ggagagcacc 360
 atgaatgcct acaaagctgc tcaggatatt gctcttgctg atc 403

<210> 42534
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-005-Q1-K1-G5

 <400> 42534

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 gtggaggggc gatggcggcg gctgatgtgg agtaccgttg ctctcgcgc gggcttgctt 120
 gggccaccag caacgagtcg ctggagaatg ccttcgcctc ctacggcgag atcctcgact 180
 ccaaggatcat caccgaccgg gagacgggga ggtctcgcgg ctctcggctt gttaccttct 240
 cctccgagaa ctccatgctc gacgctatcg agaacatgaa cggcaaggag ctcgacggcc 300
 gtaacatcac cgtaaccag gccagtcctc gtggcggtgg ccgtggcggc ggtggctacg 360
 gcggccgctc 370

<210> 42535
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-005-Q1-K1-G6

 <400> 42535

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gtcgtcgcca accgtagcat gaacatcacc accgaccatc aataatggcg cagagcatga 120
ggatagtggc gctggccctg gtggccctgc tggaggaggc agctgcggag ctcgtagaca 180
ccgcgtacgg gtgctacgac gactgctacg agcgtgcac caacggcaag aaagaccccg 240
cctgcaccaa gatgtgcaac cagacgtgcg ggttcacaga tcagggcgca tgtgccggcg 300
acgccgcgcc agctagatcg cccagcgcac tcacgcttc agctcgatat aatcgctgct 360
ggcagacgaa cccacatatg attcgatcaa tgttactcct ataactactc gaccgcgcgc 420
gatcattcta ctttatatac ttgtactata ctactactat 460

<210> 42536
<211> 414
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-005-Q1-K1-G7
<400> 42536

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cggctcggtc tgggcaccgg cgccgccggt gaggtgggcc cgcccgccgc ggcggcgggg 120
atgagggcgt accacgagcg ggtggtggac cactacaaca acccgcgga cgtcggttcc 180
ttcgacaagg aggaccccaa cgtcggtact gggctggtcg gcgcgccggc ctgcggcgac 240
gtcatgaagt tgcagatccg cgtcgacgag gactccggtg aaatcgtcga cgctgcttc 300
aagacctttg gctgcggctc cgccatagcg tcctcgctcg tcgctactga atgggtgaag 360
ggaaaaccaa tggatgaagt cttgacaatc aagaatactg agattgcaaa gcac 414

<210> 42537
<211> 463
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-005-Q1-K1-G8
<400> 42537

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ccacccctt gacctccgcc tcgcacacca agtgaagcac gcgccaccac attcatccgt 120

tcgcgtgatg gattcggagg cacatcgac gcatggagat ctggggcaat ccactgtcag 180
 tttgatgctc cggcatgtgc ttctccaat aagatttgaa ggtcagatgc tagtggatca 240
 gcccgatggc aatcgaattg cccttgcttg agttgtgatg agcatttgga aatgctgctc 300
 ttgcaaggac gttgaccatg aacacaagga aaatatgttt tttttctttg cttattaatc 360
 tgcagattct agggcgccat gtttatttct ttgcttctat ctttgtttag tcagctagga 420
 attacaatcg ggccaggaaa acaattagac aagtcccacg gtc 463

<210> 42538

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-G9

<400> 42538

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 accgctgctt cgtcggcggc ctgcctggg ccacggacga ccactccctc cacaacgcct 180
 tcagcaccta cggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcagaggt 240
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 gcatgaacgg caaggagctg gacggccgca acatcacctg caacgaggcc cagtcccgcg 360
 gcggccgtgg aggcggcggc ggccggcggt acggtggtgg ccgtggaagc ggccggctacg 420
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<210> 42539

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-H1

<400> 42539

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 tggcgatgag gtcgctagcg ctactggtcc tcctcagcct gctggttggt ggtgtggcgc 180

aagcgggtgga gttggagatg gagttggtgc ctgctgatgc aattgcgatg actatggatc 240
atgagccgcc gcaagagtgc gcgaccccg tgagcgtgga agaagcgtgc cgcggcgcgt 300
cggagacgca cgcggcgtg gcctacgacc actgcatggc gtcgcttgge gccgacccgc 360
gcaacaagga ggccggcaac aagaacatgc acgcgc 396

<210> 42540
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-H10

<400> 42540

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gactacgtag acgtcagtgt tgctgttggc acttccaagg gccttgtggt gcctgttata 120
cgagatgctg ataccatgaa ctttgctgac attgagaaaag ggataaacia ccttgcaaag 180
aaggcaaatg agggggcgcct ctcgattgat gacatggcag gaggaacatt cactatctcc 240
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attctgggga tgcattccat tgtgcaacgc cctgtggttg tgaatggtga cattctcgca 360
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gtattcttcc ttcgtcgcat caaggatgt 449

<210> 42541
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-H11

<400> 42541

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gacttctcct gaccgaccgg ggacaccaag aagggtacctg tggatcatct tagtaaaactc 180
gacacgacaa ttgcgtaatt agacaattta gtaatccgct gcggtaggta ctttgctcgt 240
cccttcttgc acaaacgaaa gagacagtga gaaaaaaaaa tgacttgggt gacaactgac 300

aagatgatga ggggagcacg cgcacagcga aacggcgcg cctggcacag tggcagtggc 360
 accccgaagg ccgaacacc tactccgatg atccatctac tgcttggcct gaccggcgcc 420
 gcggagct 428

<210> 42542
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-F9

<400> 42542

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 ggcgaggcg aagaagatcc aggacgactt ctgctcgacg ctgtgcgagg gcaagaaggg 180
 gacggacctg gtcgtgtgca aggagtcttg cgcgctctcc cagcagtcca acctggtgct 240
 gtacggcagg atccagtga agggcaagtg caccgagcag aaggcatca cggcgccggc 300
 catgaaggtc tgccaggagg agtgcgacaa ggcgtacgtg gtgaaggcgg ccgaggtcac 360
 caaggcctgc agcgtcacct gcgccaagga gaagaacccg cgcctcagcg agaact 416

<210> 42543
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-E4

<400> 42543

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 tgatccagat ggtcatgacg atgaagatga tggacatcac taaggatgcc ttgtggttct 120
 gaaaataaga acttgggtgag gcagatgaat ccaatacact tcttttttct agaaccagac 180
 tgctccacgg catccttggt tatgaaaaga cagttggcca tcaagcaggt ggtagttttc 240
 acctaggtat tttgtccaaa caaaagctgt ttgagatttg acccatgcgt ttctttaaga 300
 gcatcgtcga ataaaagatg actgcagtca gattgcttct ttttgatacc tcatattggc 360
 ccatcggtg tgatggacat gtaatattca gttatggaac agccccattt ctatgcttag 420

cgtgctggga attt

434

<210> 42544

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-E5

<400> 42544

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gggatggcaa caaagcaacg caagcatgca aagacaatta ctctactata gcgaaaggta 120
aatacaattt gctggccttt atatgacata gtctttccat gacaaaagcc gcgatcaaac 180
aaaatttaat tgacttgcac 200

<210> 42545

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-E6

<400> 42545

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tgtcgaggat agaatcatcg actatctcag tggacatgct atatgacct gatatccatc 180
tagaaaagaa cttgtcagct actgaagaac cacttaagca tgtggctagg tttatagaat 240
cttttgaatc agaatcaagg gaaatttggc tgggtgatca caatgaaggc cactcattat 300
caaaattgat atatacagct gaagaaacga agttagtcac tggcaacaat aatgagaggg 360
tcagacatat ccaagttttg caccatcga agtggtggca ttggctaagg acaacaaaag 420
c 421

<210> 42546

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-E7

<400> 42546
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 ctccgccttc gctccgcgcc actaccaccg ccgcttgacc eggaccggt ccgtggggcc 120
 gtgccgggcc gccccggtg gactggcgt gcggtgcgag aagagcgaca agcagaagag 180
 gcagccgctc gccgcgctcg tgccccgga gcagcgcttc atgttcgagg gagacgagct 240
 ctgcggcccc gacatatgga atacaacctg gtatcctaag gctgcagatc atgtaactac 300
 cgagaagaca tggatatgtt ttgatgcaac agacaagatc ctaggcaggc tagcatccac 360
 cattgcagta catatcaagg gaaagaatga acccacttac a 401

<210> 42547
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-E9

<400> 42547
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 accatctcca actgccactt caccaaccac aacgacgtca tgctcttcgg cgccagcgac 120
 tcttgccgc aggaccagat catgcagatc accgtcgct tcaaccactt cggcaggggc 180
 ctggtgcagc ggatgccaag gtgccgctgg ggcttcttcc acgttgtcaa caacgactac 240
 acgcactggc tcatgtacgc cattggcggc ggcgacgcgc caaccatcat cagccagggc 300
 aaccgctaca tagcaccacc aaacatcgcc gccaaagtga tcaccaagca ctacgcggaa 360
 gaaggcgtgt ggaagaactg ggtgtggcac acggaggacg acctgttcat gaacggcgcc 420
 atcttc 426

<210> 42548
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-F1

<400> 42548
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gtggaagctc aaggagatct tcgccacggg catcgtgcta gggacctaca tggcgctcgc 120
cacggcgctc ttcttctacc tggcgcaaga caccgacttc ttcaccaacg ccttcggcgt 180
gcggtccatc aaggagaacg acaaggagct gatggcgggc ctgtacctgc aagtgagcat 240
catcagccag gcgctcatct tcgtgacctg gtcccgaggc tggtccttcg tggagcggcc 300
cggcgcgctg ctggtgatcg ccttcctggc ggcgagctg gtggcgacgt gcatcgccgg 360
gtacgccaac tgggagttct gcaagatgc 389

<210> 42549

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-F11

<400> 42549

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gtatttctcaa cttggacttg ctgaagagga caatgctgag gaaagtagaa gagaggaagc 180
ctttagaggt gttacaaggg attttgaaca atctgagcat gttatgtttt tgggaagagag 240
ccttatagac caagctttta ataaaaaac aaaaaaaaaa aaaaaataac aaaaaaaaaa 300
ataaaaaaat atactaaaaa aaaaagaaca taaatacata caaaaacgat gataaaatca 360
ataaag 366

<210> 42550

<211> 172

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-F12

<400> 42550

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tgaaactatg ttgggtgtat cctagtgggt ggttgagcat taatggctca tattttgtca 120
ggtctatgtg tcgccgtgaa acttttaatc aaatcagttc actcttttgc ct 172

<210> 42551
 <211> 306
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-F2

<400> 42551

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 aaaaggagaa ttgaaaaaac aaaaaaaaaa aaaattaa taacatgata ttatatTTTT 120
 ttttaggaaa tctgataatt attttacatg atggTTTTTT tatatgacct ataactTTTA 180
 aataaccttg gttgatcctc tttttttgcc tgatagtgat ttttctttt gacgtcgatg 240
 tgataaacat ggggattttt gcaatttaca ttcttatgaa gcttctatgc tattttgaat 300
 atttta 306

<210> 42552
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-F4

<400> 42552

gaaaggggaa gccgccactg acgctcgcg tacacccta gccgagcctc gctgttgggt 60
 gctggacttc cctggggcct tctggggcga ttgcgcgacg ttgtcggggg tggatcgacc 120
 actgtggcgg catcaattgc tcatcggaga aggaaggccg ccgcagattg cgtctctccg 180
 tggaccgcc tcaattcgac gtcattgctg cagtgaggac acgtgtcatc tgaagagcaa 240
 gatggtacct ggaatctcaa gtcccaggtc aagaacagg accacaggat gaggcgcttg 300
 gaggatgttg tgacgagttc gtgagaggtc taggccgtcg tctcacagtc aactttgggt 360
 tgctggaccg ttgtctcctt ataatgtaat tatttatTTT ggatagaatt cctggtatgt 420
 agtaaatatg tgatattcga tctgtgccca tgattcatca tat 463

<210> 42553
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-F5

<400> 42553

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aagtgtgtgtt gttatgcggg atagtgatgg aaattctagg tgttttggat ttgtcaattt 120

tgaaaatgca gatgctgctg ctcaggctgt tcaagagttg aatggcaaga tattcaatga 180

taaggaactg tatgtttggaa gagcacaaaa gaagtctgaa agagagatgg agttgaagga 240

gaaatttgaa aagaatattc aagaggtagc tgagaagttc caaaacacta acttgatatct 300

gaagaactta gatgataaca ttgatgatga aaagttgcgt gaaatctttg ctgagtatgg 360

caatattact tcttgcaagg ttatgcggga ttcttat 397

<210> 42554

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-F6

<400> 42554

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ggaggggttcc caagaccaat agaagtgcac gcccatgac ctcttcgcta tgtaggcgaa 120

atgctgggtt ggctacatca ggccctggca tctgaaagag agcttatagt tgtcttgctt 180

gacctgatg caatgactga cagtgggtcca acttttcgac gtcagtctgg tagagatgg 240

gattcttcca aaggagaacc tgatgtaact tctgtgcttg atagaatatt tgaaggagca 300

tgtcggccat ttaaagttcg agttgagcaa gttttgcagt cacagccaag cctgatagtt 360

tctttcaaac ttagcaatac cttggaattc tattggtaca cgatcaga actgctgggt 420

gaagacactg cgctgtgcaa tacaatatgg tcacttagag atg 463

<210> 42555

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-005-Q1-K1-E12

<400> 42555

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 agatcccaag ctcaccctag agggggaaga gggcgaccga aggcggcgat gggtttcac 120
 atggacttcg cggagaatct gatcctccgt ctgatggagg acccgacaa gcgcgaccag 180
 gttcggcggg agcatgtcta caagatgaag gagcgggtgc agcgactaa ggcgcggtgg 240
 agcctccctc tgcgccccta cggtttctgg accttcgacc gcttcaactc gcagctctcc 300
 tgggatcccc agatcagcca ggccgccggc cgtcgggacc cctacgacga cctcatcgca 360
 cgccactctg gctcgccgnc gtcttcctga acaccggttc cgatctttgc ccagaagtct 420
 attgngcat caata 435

<210> 42556
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-F7

<400> 42556

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 tcttggtcgg agaacctgcg aggaaggact aaggagtcga agatgactgc ggcggtgctg 120
 tccgtgcgca cgacgacgac gtcgctgcta gcagcagtca tctgtgcct ctgcatcgtc 180
 tccctctccc cccgcggcgc cgtgcgcgcg cgggtctccc ccggcgccag ccgatcgcg 240
 gccacctgca tgacggggcc gtaccggag ctgtgcgtgg gggagctggg acagcggctg 300
 ctggacgtgc agacgtcgat cgcgtccgcg gcgcccgacc agcgcgccggc caggatcgcg 360
 ggcgccccgg tgcaggtgga cg 382

<210> 42557
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-C8

<400> 42557

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 agttgatgct ttcaagaagg agatgatgag aagcttcagt atgagtgact taggactatt 120

gagttactat ctgggtattc aggtggaaca gaagtgtgga gtgactacat tatgccagag 180
ctcatatact ctgaaaatac tcgagcaggc aggcattgaaa ggctgcaatg cttgcagtgt 240
accgatggag aacagactaa aattgagcaa gaaagatgag tcaccgcctg ttgacaagac 300
aaaatacaga agcattattg gaagcctgag gtatctagtg aacacaaggc cggatatagc 360
ctttgctgtt gggattgtta gcagattcat ggaagatcca agagcaaaac actgggcagc 420
agtcaag 427

<210> 42558
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-D10

<400> 42558

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tctcctcctc gccctggcgt ccgcgctcct tgggtgaggcg ccggccgccc cgaacgcgcc 120
cggcggggcg ttcagcaact ggggtggcgat gaaccagcag agctacgcgc tgtacgcgca 180
gaagtccgtc ggggacgggg gcaaggagcc cctggacaag aagctgtcgg aggcggagaa 240
gaagaaggtc acgtacgtgg tggaccccag cggcaagggc gactacacca acatcaccgc 300
ggcgctggag gatatcccgg tgagcaaacac caagcgcggtg atcctggacc tcaagcccgg 360
cgctcagttc cgcgagaagc tgttcctgaa catcagcaag ccgttcatca cgttccgggtc 420
ggaccccaag aagcccgtcg tcgtggtctg gaa 453

<210> 42559
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-D11

<400> 42559

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cagatcgttt ttccctcgag gtgagagtaa gatgaggag atcctgcata tccagggagg 120
gcagtgcggg aaccagatcg gctccaagtt ctgggagggtg gtgtgcgatg agcacggcat 180

ctacccgact gggcggtaca tggggacgtc ggacgtgcag ctggagcgcg tcaacgtcta 240
ctacaacgag gcttcgtgtg gtaggttcgt gccgcgcgcg gtgctcatgg accttgagcc 300
cggcaccatg gactccgttc gcacgagccc ctactgtcag atcttccgcc cagacaactt 360
cgtttttctgc cagtccggcg ccggcaacaa ctgggccaaag gggcactaca ccgagggggc 420
ggagctcatc gactccgtcc ttgacgtcgt ccg 453

<210> 42560
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-D2

<400> 42560

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cagctcaggc gctgagcgag tctatacgta cgtcgtcacc ggctggccac gcatgcgata 120
accatctgat atggacggaa ctatatattg tattcctatt aatctggcat tttctaagct 180
aattgttttt ttcccaaata taccgtcgat ggaactccaa atgtaatgtc acgcaaagtgt 240
gtgttttttca tcgattgaat ggataataat aaaaaggcat gctggcagtt actact 296

<210> 42561
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-D3

<400> 42561

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gatcgagggc caccacctga cctccgtgc catagtcggc cagcagggcg ccgtttgggc 120
ccagagcacc gcattcccac agttcaagac agaggagatg accaacaatca tgaaggactt 180
cgacgagccc gggttccttg ccccgaccgg cctcttctc ggccccacca agtacatggt 240
catccaaggc gagccccggc ctgtcatccg cgggaagaaa ggatctggag gcataactgt 300
gaagaagaca gggcaagcga tgggtggtcgg catctacgac gagcccatga cccccggcca 360
gtgcaacatg gtggtcga 378

<210> 42562
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-D5

<400> 42562

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tcagcgcccc cgtgggtggcc gttgcgaatg ggatcgggga ggtggagcgc aaggtgcaga 120
agagctactg ggaggagcac tccaagtgcc tcaactgtcga gtccatgatg ctcgactccc 180
gtgccgccga cctcgacaag gaagagcgac ccgagatcct gtctttgctt ccctcttaca 240
aagggaaatc agttctagaa cttgggtgctg gaataggacg ctttactgga gatctggcaa 300
aagaagctgg gcacgttctg gctctagact tcattgaaag tgtgattaag aagaacaaaa 360
gcataaatgg gcatcacia 379

<210> 42563
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-D6

<400> 42563

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cttgttcctc ctggctcctt tctgcatcgt gcatgggtgag aaggaagagt caaagggcat 120
cgatgcgaaa gcgtccgggc ctggtgggtc cttcgacatc accaagttgg gcgcctccgg 180
caatggcaag acagacagca cgaaggctgt gcaggaggca tgggcatcgg cgtgcggcgg 240
cactgggaag cagacaatcc tcatacccaa ggggtgacttc cttgtcggac aactcaactt 300
cacaggccct tgcaaggcgc acgtgaccat ccagggtgat ggcaatctgc tggcgaccac 360
ggacctaagc cagtacaagg accatggtaa ttggatcgag attctacgtg tggataacct 420
ggtcatcacc ggcaaggga accttgacgg gc 452

<210> 42564
<211> 70
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-D7

<400> 42564

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<210> 42565

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-D8

<400> 42565

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gatgggccac aaggaactac atgaccacaga gcctttgggg cccttcaatg tctgttagcg 120

gtggcatcaa tgtcccagtg atgcagaccc cgctctgtgc taatgctcct gctgagaaag 180

gatgcaagaa cttcatgatt gattacatga tgggcggcgt ttcagctgct gtttcaaaga 240

ctgctgctgc tcccatcgag cgtgtgaagc tgcttattca gaaccaagat gagatgatta 300

agtctggtag gctatcagag ccgtacaagg gtattgttga ctgcttcaaa cgtaccatta 360

aagatgaagg gttctcttcc ttgtggatgc gtaacactgc taatgggtatt cggctactttc 420

ctacttaggc tttgaacttt gcatt 445

<210> 42566

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-D9

<400> 42566

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tacactaagt tgatccgatg gattatctat tagaaatcat ttgtgcatta tgtattattt 120

tcaaatattt cttagatatt tcctttctta ttagatggat ttaaaaatga gatttggtat 180

<210> 42567

<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-E1

<400> 42567

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aacaagcttg atcagtacca aattctcaag tatccccctca ccacagaatc ggcgatgaag 180
aagattgaag ataacaacac tctggtcttc attgtcgacc tcaaggcaga caagaagaag 240
atcaaggctg ctgtcaagaa gatgtatgac attcaggcca agaaggtaa caccctgatc 300
agacctgatg gaaagaagaa ggcttacgtg aagcttacgc ctgactatga tgctcttgat 360
gtggccaaca aaatcggcat catctaaa 388

<210> 42568
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-E10

<400> 42568

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ccatacccat ggctcgcgct agcgctcgct tgcgtggtgc tgctctcctc ttcgtcgcca 120
tggttggtggc accgatggcc gatgcaaagt acgctgatgc cccctccgtc gatgcccccg 180
cccccgctgc tgacgcacct gccgatggac ctatcggacc ggcaggtgca cctgggtccac 240
acggcgctga gggactactc gacaatgagg acgacgacga tgactccacc aactaaggcc 300
aagcacgtcg gtccgattgc attcggaaca agatatgaaa gaaaagtga agcaacgttg 360
tttaaaacca aaaatacata ataatgtgtg gccatccacg atatgttctt gctctgcctc 420
tttttctatc cgttcgattt cg 442

<210> 42569
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-E11

<400> 42569

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caacggcgcc tccaaggtca ccgtcaagga tgtcaccttc aagaacatca ccggcacctc 120
ctccaccccg gagggcggtta gcctgctctg cactgccaaag gtcccatgca ccggcggtcac 180
catggatgac gtcaacgtcg agtatagcgg caccaacaac aagaccatgg ctatatgcac 240
gaacgccaag ggcagcacca agggttgcct caaggagctt gcatgcttct agaccctcca 300
tcgactgacc catctctcta gttataattt ttctctcgtc cttgcattgc ccattagatg 360
ctatccattg gtaacgcaca acagtaaaac gacagacatc cgacagctat attatgttcg 420
acggtgtaac accctgaatt tgagggtata aaattt 456

<210> 42570

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-C3

<400> 42570

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atgatgcagt gaaagccctt aaagttgatg aagcatgcac ccacatgaag tgttcttttg 120
gtggcatttg gaatggtggt ggtggtgctg gacagaagaa tctcttttga gcatcctttt 180
tctttgatag ggctgctgag gctggatttg ttaacgcca tgcgcctgct gctaagggtta 240
aaccatcgga cttcagacaa gctgcggagc gcgcttgctc gttgagcgtg aaaaacgccg 300
aggccacctt tcctggtgta cagaaggata gcattccata tatctgcatg gacctcgttt 360
atcagtacac attactcgt 379

<210> 42571

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-B1

<400> 42571

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 actggtgcgg gagaaattca tcaccggtgg agtgcttcga tgggctagca tgcgccgcgc 180
 catggccgag attgtttgcc gcacggactc gtcgtcggtc gtgaagtcac gagtcattctg 240
 aaaagca 247

<210> 42572
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-B10

<400> 42572

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 tccgacattc acagggggga caggaaatca gcggccatgg cctcgattcc ggcgacgacc 120
 ttccgctgca tcttatccgt cctcttctgt gccgcggctg gcaccgccgt cgacaacgac 180
 ctccccgact acgtcatcca gggccgcgtc tactgcgaca cctgccgcgc cgggttcgtg 240
 accaatgtca ccgagtacat cgcgggcgcc aaggtgaggg tggagtgcaa gcacttcggc 300
 accggcaagc tcgagcgctc catcgacggg gtgaccgacg cgaacggcac gtacacgac 360
 gagctcaagg acagccacga ggaggacatc tgcgaggtgg tcttggtgga gagcccgcgc 420
 aaggactgcg accaggtgca ggcggacagg gac 453

<210> 42573
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-B11

<400> 42573

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 cgggctctca gcgacggcgt cagcagcttc cactcccgcc tctcgccagt tgcctcgcg 180
 cctcgctccc ggtcctccgc acaccgcggg ttacccttct aaaacacctc atccccaaat 240

gaagcacata ttcaagattg ctgcaatact ggtagcaatc tctgctatct ggattgctct 300
 ccttgaaacc tccactgttc ctggaagtta tacttggttg cttcccatct acttggtagt 360
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<210> 42574

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-B12

<400> 42574

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 atctcatccc tgactgcctc cctgagggtc gatggtgctc ttaacgtgga tgtgaatgag 180
 ttccagacca acttggtgcc ctacccgagg atccacttca tgctttctc ctatgctcca 240
 gtcactctctg ctgagaaggc ctaccacgag cagctgtctg tggccgagat caccaacagc 300
 gccttcgagc catcctccat gatggccaag tgcgatcccc gccatggtaa gtacatggcc 360
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<210> 42575

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-B2

<400> 42575

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 cgctatcgag aacatgaac gcaaggagct cgacggccgt aacatcaccg ttaaccaggc 180
 ccagtcccgt ggcggtggcg gtggcgggcg tggctacggc ggcggtcgcg gcggcgggcg 240
 ctatggtggc gggcgccgtg acggcggtta tggcgggcgt ggcggtctac gcggtcgcg 300
 cgaggggtggg ggcgggcggt acggaggccg tggcggtctac ggcggtcgcg gcgaagggtg 360

tggtggcggc tacggcgccc gccgcccggg ctggaaggac tgatgtgtgg gccattctg 420
gcttcagccg agttatctta tctatctat 449

<210> 42576
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-B3

<400> 42576

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gctcccgcgt ctgccgggtc tgcgcgaacc ctacacggtct gatcaggaag tacgggctca 180
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gaaggcctaa tttatgcgct ttagcttttt gtccagaact tgagactcat gtgttaaact 360
cgacttgta aagttttgat ggctactttg tgcttggtgg accagctata atcagaagat 420
tg 422

<210> 42577
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-B4

<400> 42577

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ttactcgcag agcagcgtcc acgggtcaag ggccagtttg ttcgtcaaga tcatagcatc 180
caaggaagct agggccagc tactgagctg gaactctatt ctattatcta aaaaagtcac 240
tgcaagtgc tccactgcgg tctgcccgtg tcctgatgtc agattttgtc gaatagttgg 300
aagcagtcac actgagttac agtttgctct gtatatttgc tgaagtttgt aatatatgta 360
tgtataggct aacgct 376

<210> 42578
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-B6

<400> 42578

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tcaactctca agacatctgc taatccagaa ccacgcgtgg atggcgatga catcactgat 180
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tgagtgtcag catcagcatt ctcaacgtcg ctgatggatg catttcggcc tagctgtata 300
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tagtttctta agagcttggt cggttgctaa ggg 393

<210> 42579
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-B7

<400> 42579

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ccacctgctc cgacgcgatg cgggccaaagt ggaagaagaa gaggatgcgg aggctcaaga 120
ggaagcgcgg gaaaatgagg cagagatcta agtaggcgca tcttgtgacg aggatggcga 180
gcttctctcg catcatggct gaggtctggt gggatgatgg tctccctttg cagacgtcct 240
ttgctgtaga cgtaggcgat gtaaaccgtc ctttttgatt cattctagca tgttctgaga 300
ctgggtttat attgtaattt gaggataatt atatgatgct ctaagttaaa tcagattcct 360
ggcaaaaa 368

<210> 42580
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-B9

<400> 42580

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aaatggctat acaaacatgt tcacagcgtc caccacgagt acgccacacc ctttggttta 120
acttccgaat atgcccaccc agctgaaatt ttgttctctg gattcgccac agttgttggg 180
cctgctctta ctggccctca tctgttcacc ctgtggctgt ggatgggtgt gagggatttg 240
gagactgttg aagctcacag cggctatcac ttcccatgga gcccatcaaa tttcctgcca 300
ctgtacggtg gctcggactt ccatgactac catcaccgag tgctgtacac aaagtcaggg 360
aactatgcct cgacatttgt ttacatggac tggttgttcc ggacggacaa tggttatcgc 420
aaggcaaaga gaccattgag gagcaagaag tga 453

<210> 42581

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-C1

<400> 42581

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cggcgcgctg ctggtgatcg ctttctggc ggccgagctg gtggcgacgt gcatcgccgt 120
gtacgccaac tgggagttct gcaagatgca gggcatcggc tggggctggg gtggcgccat 180
ctgggcgttc agcgtcgtca cctacttccc gctggacgtg ctcaagttcg ccatccgcta 240
cgcgctctcc ggcaaggcct ggaacaacat caacaacaag acggccttca ccaaccgcac 300
cgactacggc aagggcgagc gagaggcgca gtgggccacg gcacagagga cgc 353

<210> 42582

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-C11

<400> 42582

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gaccacggcc tcgcgtccgg gtcggcgtgc gccacgcgcg ccaacagcct gctccagcgg 120
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 gggatgggcg ggcgcgacga ggcgagggac gaggagctgc tgcaggagtt ctggagcagg 300
 cacagggaca acgagcgggt ggtgtacgtg gagaagacgg tggaggacgc ggagggcacg 360
 gcgtccgtgg tgcgcgccat gagcgagaag ttcgacctgc tcatcgtggg tcggcgcggc 420

<210> 42583
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-C12

<400> 42583

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 tgcagatcaa gggcctcaac gcggggcacgc tggacctgac gaataacggc tggggccaca 240
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 catggaagcc agccgtgaac gacaggccgc tcacctggta caagaggcac ttcgacatgc 360
 cgtcgggaga ggacccgacg gtgctggata tgagcacaaa tgggcaa 407

<210> 42584
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-C2

<400> 42584

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 cccaacatca ccaccaacta caacggcaag tggctcaccg ccagggccac ctggtacggt 180
 cagcccaacg gtgccggcgc tcctgacaac ggcgggtgctg gcgggatcaa gaacgtgaac 240

ctgccaccct acagcggcat gacggcgtgc ggcaacgtcc ccatcttcaa ggacggcaag 300
 ggctgtggct catgctacga ggtgagatgc aaggaaaaac ctgagtgtc gggcaatcct 360
 gtcacggtgt tcatcacaga catgaactac gaccta 397

<210> 42585
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-A9

<400> 42585

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 tgagaacaaa gaaaatcttt ccaaattatg ggatattcta gccgtgtatg catggattga 180
 caaagatggt gggtactgcc aaggaatgag tgatttatgc tcaccaatga tagttctact 240
 aaaggatgaa gcagatgcct tttggtgctt tgagaaattg atgcgtagat tgcgaggaaa 300
 tttcaaagtc acagatcaat ctgtgggagt atccaaccaa cttcaacatc ttgcatctat 360
 tattcaggtt cttgacccaa agctacatga ccacctagaa actcttggcg gaggtgacta 420
 cctttttgcg ttccgaatgt tcatggtgct at 452

<210> 42586
 <211> 204
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-H3

<400> 42586

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 ctgttctacc ctaacattcc accattttac tgatatcaat tacattctga actattctcc 180
 tttacctaag aggccactg cact 204

<210> 42587
 <211> 412
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-H4

<400> 42587

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tgtgcattgt tgtgggtcct gaagatctgg ttacaagcct acaacttaac tgatatatat 120

cacatgatga tgataatatg tatattcatg gtgacacctt tgctctttga acatgtttgta 180

gtctattgtg tagttgcaaa agaatatgtg aattaccagt cagtggagat tgagagggat 240

tccccggcta gaagctcaag cggattagga agtggctcat cttcatccag tggtagagta 300

cagtggagca aatgagtatc tatcaccatt aatgctgagt tatcgatcaa gtagctcggt 360

aattcgtaa aattcttgca gaatctgact tttgatgtac aggttatttt tt 412

<210> 42588

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-H5

<400> 42588

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ccgccaacaa tggcctcaag gtactctatc ctgcttgcca caacgacact ggctatgttg 120

ttcgcattcg gttcgtgcac caccacctc accttccagg tcggcaaggg ctccaagcct 180

ggccacctgg ttctacccc taacattgcc accatctctg acgtggagat caaggagcat 240

ggcggcgacg atttctcctt tacactcaag gagggcccag ctggcacttg gacgctcgac 300

accaaggccc cgctcaagta cccctctgc atccgctttg ctaccaagtc tggcggctac 360

cgtatcgccg atgatgtcat ccccgccgat ttcagggccg caccacctac aagaccactc 420

tcagcatctg atgagcctgt gatgagtgat gacgaataat at 462

<210> 42589

<211> 342

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-004-Q1-K1-H7

<400> 42589

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gtgcagttct gcttgccggc actcggctcc gatggccgga gcgtcgacca ctgcctcgac 180
taccaggtct actccgcat tgccgtgac ctctcgcgg ccaacctcac cgctacggcg 240
gccaagatca acggcctgct ccggaagagc ggccggctccg ncgacgaggc cacgacgcgc 300
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<210> 42590

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-H8

<400> 42590

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tgtatattca tggtagacacc tttgctcttt gaacatgttg taatctattg tgtaattgca 180
aaagaatatg ttaattac 198

<210> 42591

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-005-Q1-K1-A1

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agcgagatca tgaagctaaa gcgtgggatc agcaccaaac caggagacca cctcgtccaa 180
aatggccaac aacatccatg tcacgaatgg gaggagcaac agcgctactg gccctcgccg 240
cgggcgccgn cggcgagccc gacggagtcg cccaggaccc caggcgggag ccagaagaag 300

gcggtttctgg gcaaggtgaa gagcaaggcc aagaaatgga tgcacatgct gcatcacagg 360
aagaaacccg ngccaccgga ggagatgatg tggacccccca gggccggggcc tggacccacg 420
gcggggacaag aca 433

<210> 42592

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-A10

<400> 42592

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aggtgccacc cggccccaac atcaccacca actacaacgg caagtggctc accgctaggg 180
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tcaaggacgg caagggctgc ggctcatgct acgaggtgag atgcaaggaa aaacctgagt 360
gtcggggcaa tccagtcacg gtgtacatca ctgacatgaa ctacgagcct atcgctccct 420
accacttcga cttgagc 437

<210> 42593

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-A11

<400> 42593

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tcggcgcgatg gcctcgtgaa gccggaggca gccgcggcgc ccaagcccc cgtecccaag 180
gccatatcgg acctgagga cgcgatcgtg aaggggctgg gattccaggc cgaggggctc 240
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gacatcgagg tcggcaggaa ggtcctaccg gtgcgcctgc tggaggacgt cagccggtgg 360

gacttcgtcg acctcccat cttccgttcc caggccgacg ctgacgatac ggcgtctgcc 420
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<210> 42594

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-A12

<400> 42594

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ctgagcgtgc tttcagc 437

<210> 42595

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-A2

<400> 42595

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ggacctactg tttagaacat tggtcacatt gacatgaaga taagctgcct tttcatgac 240
tgcagcttca acatagctaa aacaacaaat ttttaattct taaaatgcct tttaaaggaa 300
aaatggttca agcaccatta catagtcctt aatttgactg tatatattac ttttgaacag 360
gttaattagg gtttaataaa gataacaaaa agg 393

<210> 42596
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-A4

<400> 42596

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 accggccgta ctactatatc tacatacgac cgtgggacaa cgtcgaccgg agctcgatcg 180
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 atgtacgcat gtatgtgccg gcaccatttg gtcttgtgtt aagtttatcc ttggattcca 360
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 tttaaca 426

<210> 42597
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-A6

<400> 42597

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<210> 42598
 <211> 252
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-A7

<400> 42598

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acttggtgct gcgcctcagg ggaggcatgc agatcttcgt gaagaccctg actggcaaga 180
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acaaggaggg ca 252

<210> 42599

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-A8

<400> 42599

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ctcattgtgt ccaccgatat ggcacaggca agggaatgcg agaagtacag tgagcgattt 180
gttggggcat gcatgatcgc agacaactgc gccaatgtgt gccgcggtga gggcttcttg 240
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ttatttatga cgaatgtcat gtatgttctg gtgactgtca tgtatattct gatgactgtc 420
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<210> 42600

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-004-Q1-K1-F4

<400> 42600

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 gtgaccttca ccctgggggc gccctgcggc tggcgcccg cagtggactt caacttattg 240
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 gcactacgag ggtgancagc tgctccgtga ttgtngactc aactgtgggt accacagcat 420
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<210> 42601
 <211> 447
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-004-Q1-K1-F5

<400> 42601
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 aacgagaaga tccatgagta taagcactcg tcgtcgctct cctcctcttc ggactcagac 120
 gatgacaaga agcccaagaa gtctaagaag aagaagcttt ttggaagaaa acatccattg 180
 catcatgtcc tcggaggagg caaagccgcc gaccttgtgc tgtggaggaa caaacaggca 240
 tctgggagca tcttggtagg ggtgaccgtg atctggttac tggtcgaggg catcggctac 300
 cacctcctta ccttcctttg ccacgcacta attgtgtttc tcaccatctg gttcatctgg 360
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<210> 42602
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-F6

<400> 42602
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aggggagacc cagaagatga tgctgggaac gttcagcccc cagctagagc cctatatcta 120
 cgagggcgaa gaagagacga cacctgctgg catttttgct agaggctcct attccgctaa 180
 actaaagttt gttgatgacg atggcaagtg cttcttggag atgagctact actttgagat 240
 taggaaggag tggccaggag gccaatgatg tggccggacc agcagggcag agctgactcg 300
 tcggagtacg ctgttgtag agctcatagc aaaaagccaa gcagaaaata tgtgctatcg 360
 cttcaagaat gtttcactac tttcttcgtc attatcgatt gtgttttgat ttgtttcgag 420
 ctgtcattaa 430

<210> 42603
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-004-Q1-K1-F8
 <400> 42603

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 acgcaaccag acaaccagta caccaccgcc accaagcccc ggccgaataa ctctgccggg 120
 caaccgccgc ctttcgccgg caaagaacgc ccaccagatc caccgccgcc tgctatggag 180
 tccgcggtga acccgaaggc gtaccgcgtg gctgatgcgc agctgacgat gggatccctc 240
 gatatcatcc agcaggccgc caactacaag cagctcaaga agggagcgaa cgaagcgacg 300
 aaaaccctga atagggggat atcggagttc gttgtgatgg cggcggacac ggagcctctc 360
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 ccatcga 427

<210> 42604
 <211> 478
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-004-Q1-K1-F9
 <400> 42604

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atgagcgggc tgaggatccg cgcaccgccc aacagcccca acacggacgg catccacatc 120
gagcgcagca gcggggtgtc catcgtggac acgcacatcg gcacgggcga cgactgcac 180
tccgtcggcc agggaaacga caacgtggag gtctcccgcg tgcagtgcgg cccgggccac 240
ggcatgagcg tcggcagcct gggccgatac tccggcgagg gcgacgtcac gcgggtgcac 300
gtccgcgaca tgaccttcac gggcaccacc aacggcgctc gcatcaagac ctggggagaac 360
tcgccgtcca ggagcaacgc cngcacatg gtcttcgaga acatgggtcat gaaggacgtc 420
cagaacccta tcatcatcga ccagaagtac tgcccctact acaactgcga gcacaagt 478

<210> 42605
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-G10

<400> 42605

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gagaacctat tgacaatggc ccccgatat tgccgaagc ctactcggat atctctggaa 120
gctctattaa cccagtgag agaacctatc cagaggagat gatccaaact gggatatcca 180
ccattgatgt catgaattcc attgctcgtg gacaaaagat tccactgttt tctgctgctc 240
ggctccctca caatgaaatt gct 263

<210> 42606
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-004-Q1-K1-G7

<400> 42606

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aagcgcacatg acccggcggt cgagacgccc aacaagccgc cgcccacgct gctcaacgcg 120
gccacctggg cgctccacat ggggtgcagc agcaacctgc ggtaccagac gctgaatggg 180
atcgagtacc tgctcggcaa ggtcgcaccg gcgccggtgt tcaaggtgtc cgttggtgct 240
ctccgctgca tgaacaacgt gctgggtggg atgtccttcg tgctgcttgc caggctgacc 300

ggngcgcaga aatcagacaa gccagcgacg gtcgcggaag agaaggagag gttgatagct 360
 gtgggcaatg ccgcagcaga tgccatcaac gaggcgaggc atggaaaggg tagtaggtgg 420
 tagaggagag 430

<210> 42607
 <211> 486
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-004-Q1-K1-G9
 <400> 42607

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 tctacaccgt cttcttcac ggacgaggag ttgagccctt cgccgtcggc atccaccgcc 180
 gaggtggcgt cccctgccgc tgatgggcct gctgagggac cggcggctgc tgatgcctcc 240
 ggtgctgcta cccttggaag cggagctgcc atcgctggtg tcgccgtgc tgctgctacc 300
 atgatcttct actgagttca ccagctggga ccgtgctgc gaggggtgggc acgtagttgg 360
 ctgtgcgcta attgctcgtc tggtcgggag ggaccaataa cgcattgtgtt gctttgcttt 420
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 gattaa 486

<210> 42608
 <211> 177
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-004-Q1-K1-H1
 <400> 42608

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 ctctagatta tgcacaaacc ggttaattgg tgcagtcttc attttcaaga tgatggagtg 120
 gtggtatcaa tctggctgaa aaagaatgtc aactccgact gtatatccac caccccc 177

<210> 42609

<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-H11

<400> 42609

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gttttataat cccaacgggc catcctacaa ttcttacaca tcatgcatag ctctacaagg 120
attatgtcgg cctctgaagt ctttaactagc gactcattcc gcattctaca cccaatcttt 180
atgtataaac ttcttaacct cagctctaag ccttttactt ctcttctct tgacctcacc 240
aactcaacct gtacattgag actccgttcc agcatttcca tataccctac 290

<210> 42610
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-F3

<400> 42610

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gggagacggt aataatcgag acggcacgca tgttccatcc tgccatcatt ctgcttctcc 120
tgctcattgc gaccacccat gtaagctcaa gcagcaaaag aattctagaa ggacacctag 180
ctattacttg gggcatgcat gacgtcagac aactgcgcct acgctttcca cgatcaaacc 240
ttcatctgag accatttcag cacctttcac cgtcagttca tctgcactaa accgcgctaa 300
attaacctac tttcggcatc tctatcgtgg actttttattc tatttaatga cttacttgat 360
ttttt 365

<210> 42611
<211> 372
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-004-Q1-K1-E1

<400> 42611

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 cctcatcgcc gcctcggcca ccgtggcgct ggccgcggag gcgccggctc cgtctccac 180
 cagcggtcc tccgcggtcg caccgccat cgtcggggcc gccgtggcct cttcttcgc 240
 gtactacatt cactgagccg ccggacgagg agccggagcc ggagggaga gaccaagggtg 300
 gngggagaga cttggctgcg ctgcgctgct ctgctgctcc cgcgcattcc cgatgcgtgg 360
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<210> 42612
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-004-Q1-K1-E11
 <400> 42612

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 cctggcgagt gagcgtccag accgggagggc tttaaccgtg gaccttcaca tgtcagtga 120
 cgatatctcc tgaacgacta cctgcttact ggcaacacgc acattcctgc gactccgcgg 180
 cctctccaaa gcgggtccagg ccatgcccatt ctcacgcta ccaactcgt catatgcacg 240
 cgcacacgca gaagtatggc gtcgatatga cacaccctga atcatcactg ctactgaccc 300
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 gtgtag 366

<210> 42613
 <211> 579
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-004-Q1-K1-E2
 <400> 42613

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 cgagggacac cggtnnnat caggcnagc agggcgaatg gggcggcatt ctggcagcng 180

tctcgcacaa aacgacccca cataccacca gcttgtatcg ctcgctncgg gcccggcccg 240
gcttggacaa cccnntcgca gtggggggcct gctcgnggtt tcttcggagg ggcttcatct 300
gctncattta tgatnngttt tctttcgccc cegttggtat tctattanng tttcaccaat 360
atagaagaaa ataggtacct gggatgaactt tttaaaaggg ttgagggggtt gttcgnntct 420
tccctttttc ttaaacctct taaaaacccg acaatannaa gtattgtatg gataccacca 480
ccannataat attatagacc angnntaaag tagtatttag ttctaaatat ataagtgtga 540
aagttttggg tattagaata tatatctttt ccttttata 579

<210> 42614
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-E3

<400> 42614

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gtggattcct tctccggcgc atcggcggcg gcgagggcgc cctgcctcct ctcgcggtggc 120
gcggccggcc agcgagcaca tccgccccgg cggacgacga gctcgcgggg aagagcgcct 180
acgaggtcct cgggggttggg gagaccagtt ccagcgccga gatcaaggct tacttccatc 240
gtctagccaa agagaccac ccagacgtcg ccgoggctgc tggttcccga cagttccttc 300
agatcctagc cgactaccag agcctatcag attcacacag aagggtcac tatgatagct 360
acctgctatc g 371

<210> 42615
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-E4

<400> 42615

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gtgttgtgca gcaatccacg caactgagga agtgctgtct acaatctaca ttcaagtcac 180

gttgggtcatc cagaccaaac atgctactgt cacatctagt agtcatcagt ttgacgccgc 240
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 aaatttgctt ttagtctgtg ctatgtatat ttcgaaaccc acttcctctg gctgtttttc 360
 atttcttttag ggctagtttg gaaactccat tttttcaacg gattttttatt ttctcaagtt 420
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<210> 42616
 <211> 425
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-004-Q1-K1-E5

<400> 42616

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 cctatacagt tgcccgtgct ggtcagaacg ggtaccacca ccgcaccgag atgaacaaga 180
 aagttttacaa gatcgggaag gctggacaag agaccacga tgccctccaca gagtttgaca 240
 ggaccgagaa ggacatcact cccatgggtg gcttccccca ctatgggtatc gtgaaggggtg 300
 actacctgat gatcaaggga tgctgtgtgg gtccaaagaa gaggggtgggtg acccttcgnc 360
 agtcccttct gaagcagact tnccggctgg ccgctganga gatcaagctc aggttcatcg 420
 acaca 425

<210> 42617
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-E6

<400> 42617

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 cgccgcctgg acctctgca ggtgggtgctc ttgcgcgtg tgctcctcgt cgtcgtcgcc 120
 gatgccggcg tgacgagcca gtaccggcgg aagctggagg cgacgggtgga gatgccactg 180
 gacgccgacg tcttccgcgt cccgccgggg tacaatgcc cgcagcaggt gcacatcacg 240

ctgggtgacc aggagggcac ggcgatgac gtgtcgtggg tgacggccaa tgagctgggc 300
 agcagcacccg tcatgtacag cgaggcgtcg ccggaccggg agaagatgga gctccggggcg 360
 gagggcaccc acacgcgcta cgactacttc aactacacc 399

<210> 42618
 <211> 395
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-004-Q1-K1-E7
 <400> 42618

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 gccgtgcgcg ccatggtgaa gtactcgcag gagccgggca accctaccaa gtcggctaag 120
 gccatgggca gggatctgag ggtccacttc aagaacacaa gggagacagc ctttgcgctt 180
 cgcaagttgt ctttgaccaa ggctaagcga taccttgagg atgttattgc tcacaagcag 240
 gcaattccct tccggagata ctgtgggggt gttggtcgca ccgcgcaagc taagtcgcgc 300
 cactccaatg ggcagggccg ctggcccgtt aaatcagcca ggttcatcct ggatttgctg 360
 aagaatgctg agagtaacgc tgatgtgaaa ggctt 395

<210> 42619
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-004-Q1-K1-E8
 <400> 42619

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 tgtgacaaga acaagtcttt gacagagagg gtggaggatc tgcatagaca acttgagtct 180
 gcaaccaagg aacatgaggc gctgatcgac atcttctcag aagaaaggaa ccgacgagac 240
 caagaagagg agagcctgag gaagaagctg aaggacgcat cttccaccat acatgatttg 300
 ctggagcaac tgaatgctgc caggaaaggc cgcaaagttt gaggaaataa actagtaacg 360
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440

<210> 42620

<211> 440

<212> DNA

<213> Zea mays

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gctaaaccga catggtatgg caagccgaca ggtgccggtc cctactacaa cggttgtggc 240

tgctgtaca aggacgttaa caagcccccc ttcaatagca tgggtctcatg ccgtaacatc 300

cccatttca aggatggtct gcgatgtggg tctgtcttct agatcaagtg cgataagcct 360

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<211> 423

<212> DNA

<213> Zea mays

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gagactgaag gcaacatctt gaaagaagac gaaagcactg caaagtctcc ttggtggtct 240

gatgtgcagt catggaattg ttggtgggtc cagtcactgt caaacagcat gagatcgatg 300

gaagcattct cgcgtttggg cgtaaaactgt ctagggaatg ggatgtgacg tcatggaatt 360

gttgtcgtac tacaagagag gttcatatac atgaatatat gattgactgg ctgtgtaaaa 420

ggt 423

<210> 42622
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-D9

<400> 42622

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 atgaaaccta acgcccgtatt gcataactat gcataattat ggtacttatg tcacgaggtg 240
 gaactcacao tataatctag cacagagaag ccaccaagat aactcaactt gtacgctaatt 300
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<210> 42623
 <211> 417
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-004-Q1-K1-C2

<400> 42623

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 ccctgtgtgg tatgaactat cctcttccat cgcccagata agaagttctt ctgcattaag 180
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 gcaggaagcc gggacgggag ccatacgtg gggcgcttga gccggattgc tccagcttgg 360
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<210> 42624
 <211> 343
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-C3

<400> 42624

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atgcacacaa ccatgcgagt agtctgggtga ccgacctcat tgcaccctcc cattcacttc 180
tctgcagcag cgacgttcat gcatgggtgat caacgaagag gtttcttctt tcttgatttt 240
cctcttacac aaaactatatt gttcaatgga ttttctata cgatctgtgt accttcttta 300
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<210> 42625

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-004-Q1-K1-C5

<400> 42625

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atctgatcga tctctttctc cacggacgac aacagagagc cgggcgtttt gggccctcgc 180
atcgtttgtc gccgctgcta acgttcgcat gcccatgccc gcgagcgcgc tctcgcgcga 240
caataactga tgagttaagt ttgttttgct ttgaccatct cacatcgtta tttctgtag 300
agatgcgtta atttggtctc ggaaacgng aggcgaattg aggtggaata ttataattc 360
aagatacaca gttttggttc t 381

<210> 42626

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-C6

<400> 42626

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agggccttaa tagtctatag gccacacaag tgatacaatt attaccaact ttgggtggat 120
 aactgaagta gggaaaactt ttcttgtcat tttaacatct caaagagttt ttctgcaaca 180
 ttcttgtcaa cacatttcca gtaatcaaag tactggccgg tacagtgttt gtgcccagtc 240
 tcgtcattct caatcctctt aacacatttc tgatattcat accactgcga cacacactta 300
 gcctttgaac gttcctctaa gaacgccttt ggatcagtta ctttcttatac cgtcattg 357

<210> 42627
 <211> 489
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-004-Q1-K1-C9

<400> 42627

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 ggaggcggag gagagggatg gggagggacg agaggttccc ggtgtgggag gccgcgctcg 180
 gcgccggagt cgccgacgcc ttcgccgctg gactcgtcgg tgtctacctt tccatgccgg 240
 actccgacta cagcttctc aagttgccac gtaatctga ggaactccaa atcctcactg 300
 gccatcttga gaactatact agtgactaca ccctacaggt gttggtaggt tattgcgctg 360
 tgtacatctt catgcagacc ttcattgatcc cagggacaat attcatgtca ctgcttgctg 420
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<210> 42628
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-D1

<400> 42628

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 aggctgtcat tctatcacct cgtgttttta gctgtctgt ctctctctta ttttgcgtg 120

caccatgtat aaaataaaac taaactaggt taaccttgat ttgcgaataa cgttttctgt 180
 ttctatggcc tagtcgcaaa cgaagtggca caaacattcc atggctaatac ttgatgcatg 240
 agcatcggct gcttttgttt gccacctggc agagtggcag tgcatacctga tgcacagaca 300
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<210> 42629
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 <223> Clone ID: LIB3075-004-Q1-K1-D10
 <400> 42629

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 aaggctgcaa cagaagaagc agcagcgaca gcgattcctt cctcgtacct ttcgttgccg 120
 tcgcgcactc ggatcgacct ctctaggggt ttgcatacggc ctcccgcag ctctatccc 180
 tcccctctcc ctccgcgcgcg cgcgcgcgcg gggagccacc aaaccctagg acggcaaatac 240
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 ggtcaggggt cgggtacctc gccggcgccg cctctggctg gtgggaccgg tggatgggtca 360
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<210> 42630
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-004-Q1-K1-D12
 <400> 42630

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 gcttcaaaac cgtgctgtgc actcaaattt tgctatcaca aacactacaa tgaaacacca 120
 ctatccata gaacacacta ttgctcctga ccaggctcca gctgcttcat acacctacc 180
 tcctcctgcg ccagcatcca tgacatggcc ccataact cctgaacata cacaagatgt 240
 tcatataaaa acattatta caaatccac ctacatattg taccactact gtctaccata 300

tatccttact caacaacgca acatcatcta aatctactac caccacgat taccaccaga 360
tatccacgga tcatgcctta ataattccct acgactatat tctatcaatc gttacctct 419

<210> 42631
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-D3

<400> 42631

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cgcggcgggc catcacgttc aaggacaccg gcaccgcca gatcatgctg cagctcgccg 120
tccaggactt cgactcgtgc gaccgcccct tcaaccagge cggcgctccc aaccccatgg 180
ggaagtttga caaggagctc aaccagatgg ccaacaactg catggctctt gcaaacaatga 240
tatgaaccac gcatgcaacc ccagcgtgag gtgccatcgc atgcatggaa tgcttgcat 300
catttttcat ttaattaaga attcattgaa attatgagtt atatatatgg agtaactcta 360
tgtatttggc cctgacctgc actattta 388

<210> 42632
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-D5

<400> 42632

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tattgcatg tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaac taacactata aaagatccaa ccttacttac gaataaatgc aacttgataa 180
cattttctat agtgcaaact aaattgaaca aacattccat tgtttaac 228

<210> 42633
<211> 575
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-004-Q1-K1-D6

<400> 42633

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agagggcgac taacaatgng tcgaggtgtg ngccttggtg gcgngcggt ggnntctgt 180

gccttcctng gttagcgatc aggtgccgtc agggggccca tttcagcgct cgaggggaat 240

gggtgtcant nnttgatcaa tttganntca gctgcaaggg taccctgggc annactgcga 300

caagggaaact ctgggccccg agggccttcc cgcctcaggg gaaactccgc catacgacta 360

cactccgcgg tctgcaactc cgatcactcg gcttgtctgt cggctgatca aatatctctc 420

tggtnncgat gtgcgcgcca atgtcannat gtcgcaacgc gccgtgcatg gtaccaaagg 480

cctcaaagcg tgtggtgctc gcgtgttgtg tattatatta cacancatgc attnatacat 540

tgggtcgtcg atcgttactg gatgcatggc aactg 575

<210> 42634

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-D7

<400> 42634

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acgttcgagg gcgcctgcac ctccaagatc atgctgcaac tcttcgtcca agacttttac 120

tcgtgccacc gtccctttac ccaagcctcg cgttcccaac cccattggga aattttacca 180

ggagctcaac ccgattgtcc acaactccat ggctctttcc aacattttat taaccactc 239

<210> 42635

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-C12

<400> 42635

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ttccacttca gcctcagctc gctcatgaag gagtttaatc agtagggcgg ggctgcacac 120

tacctgcctc accctctcat acttatcacc ggatatcatc atcaagaaag gctactactg 180
 caccctggcc tacatctgat tcttcagtct cactctattc gtactcctcg cctgctacct 240
 ctggttccac gactcctacc tagtgcatat gtacctcatg atcaccatag cctacctcaa 300
 gtacc 305

<210> 42636
 <211> 77
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-A8

<400> 42636

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<210> 42637
 <211> 380
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-004-Q1-K1-B1

<400> 42637

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 caggtcacctc gtcgtcgccc catccagaac cgaggttctg gccgctgcgt tctccctctt 120
 gtgcttcgac ccgctggtgg cgattagtgc tcgctgcaac cgccttgtcc accccctcta 180
 attccccctc cgcaagccat tgctctgtag atttcttcgc gctgccactg tcgcctccgg 240
 aatttccacc cgccattggt gccgtgagag ggacctcgcc gggatcggng tgccgctcga 300
 attgagtagg tcgaggagct cctctacgcc tcgacgagcg tgtccgcgac accaacacta 360
 gggatggagc ccctgtcgac 380

<210> 42638
 <211> 505
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-B12

<400> 42638

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gacgctccat gatattatga tggcttgcat catactgcat aatatgattg ttgaagacaa 120
acgggatgag tacggaggag aacaagttta caacttcgac gatatgggac aatatctttg 180
caactactac gacatgggac aaagggatgat agtgtcacac aattcttcac ctgaactcga 240
tgcatcatt aaaaaaatac aaaaatatca agaacaagga aaccactat cagcttaagg 300
cagacctgat cgagcacttg tggcaaaacc attctgagtt atataaaatt gattaatgtg 360
ctatttatct atttttatct actttatgta ataagaacaa agttgtgcag taaacatggt 420
tactgtttat ttccacttca attgcctgca atcatgtgtg gagttacgtg ttcacaaaag 480
gtgaggataa tctataaatc aaata 505

<210> 42639

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-B2

<400> 42639

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tgggagcttc catggcagtg tccgcaacaa tcagacgggg gacaatgcga gctttccacc 120
cagctccagc aacaatcaat ctggggatgg tctcagtttt catgaaaggt tctatggatc 180
acgtggaagg gaccagagca gaacaagcaa tgatggattc cgtgccagga gcagaagtcc 240
tcctggcaag cccgtggaag tttccaactg gtgattgcat ccactaggtg caatccaatt 300
tttgcatggt tgacgaaacc aagtagaaga tggcacccta acaagttata ttatttcctt 360
ttcttatcct gcttagatcc caagatgtga tgggtctgaac cctaacggct tctgctatct 420
tgattgacgt ctgggagac 439

<210> 42640

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-B3

<400> 42640

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aagggtccgg aaacatctga aaagggagcc cattgcactc atcaacaaac ttcgccaagc 120
gcaaaatgat cctcctcctg gtcaaaaacc tgagccagtc aagacacatc ttcctaakat 180
gatcattgtc cccgaaaaga atggaagcat ttgtggggtc tacaacagcc ataccatca 240
ccacgttttag atcaaacctg acatgatagc tcactacc 278

<210> 42641

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-B4

<400> 42641

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atggcctgcg atgtactcca tcatgctcgc cacaactgca cttgctacgt cttttgtgat 120
tgtttcgtgc tccaccctc tcaccttcta cgttttctat atgctccaaa cttttccacc 180
ttttccttac cctcaacatt gtcacca 207

<210> 42642

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-B5

<400> 42642

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aagtaaakat gtctgaccgg gcaaagatgt cgtggcaggc gtacgtggac gagcacctga 120
tgtgcgagat cgagggccac cacctcgcgg cggcggccat cgtcggccac gacggtgccg 180
cctgggcgca gagcacggcg tttcccagat tcaagaccga ggacatggcc aakatcatga 240
aggacttcga cgagccaggg cacctcgcgc cgacaggcct gttcctcgga cctaccaagt 300
acatggtcat ccaaggcgag cctggtgccg tcatccgtgg caagaaggga tcaggaggca 360

tcaccgtgaa gaagacaggg caggcactcg tcgttggcat ttacgacgag ccgatgacgc 420
ctgggcagtg caacatggtg gtggaaaag 448

<210> 42643
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-B6

<400> 42643

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ggaggggtgaa gaaggctgta ggcatgaagg aagaaagggg tgaccataag gttgcagggt 120
ttatatattat gtgcaatgca aatactaaga aggagtgcta ccagaatcgc ttgtttggga 180
tgcctgatcg gaagattgga atggtcaata agataatgcc agggatgaag ctgtttctgt 240
atgattttga cctgaatctt ttgtatggag tgtacaaagc agcatcacat ggtgggctaa 300
accttttaca atgagcattt aatgtgaagt tccttgcaca tggt 344

<210> 42644
<211> 163
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-B7

<400> 42644

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ctgggtttat tctcaccggc tgetctggcc gccttccatg tgatagatat gctggccaat 120
aagtccactt acattcaact tcctgaagct tctgcataac acc 163

<210> 42645
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-B8

<400> 42645

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cagctcaaga tagtcccaac ggaagatcct gcaatTTTTTc cacattttTgc agggaaagaa 120
gaggggtatg tccgcgtgtg aggtcttagc tagagactca aaccgggttc gacaccatt 180
ctttatgtat agctgtacgt ggttgggctt tgagcccttt gctgctgctg ctgttgTTTT 240
caccaatgca acgtgtagag agggactgtg ggggagcagt gccttctacc agactgtaca 300
tgtaacatgt tgcagaaata tatgaagaaa aaatgacgtt tgaaggat 348

<210> 42646
<211> 493
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-B9

<400> 42646

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ggggaggttg gtgggttcgt gttccaccgg ttccccacga tcgagcggct cgcgctcgtg 120
tcggagcagg aacttcgtca ggccggggtt gggtacaggg caaagtacat tgttggcact 180
gctaaagaat tgcaggccaa acctagtga ggtcaaaaat ggcttgcttc actgcgtgag 240
aaggagcttt cagatgtgat tgaagctctt tgcactctcc cagggtgttg tccaaaggtc 300
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gtttggaagg ttgctacaca gtatctatta ccagagctag ctggcaagag cttgacccca 420
aaacttagcg ttgttggtgc cgatgctttt gttactagat ttggaagcta tgctggttgg 480
gcacaaaacg ttc 493

<210> 42647
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-004-Q1-K1-A7

<400> 42647

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gccgagtacc cggagacgat gcagaagatc gtcattggga ggctgccc aa cttcaccttc 120
gagcagtctg ccatggtcaa aggctcagcg gactacgtcg ccatcaacca ctacaccag 180

tactacgcc a gcaacttcgt caacgccaca gagaccaact accgcaacga ttggaatgca 240
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tacgtcggtc catgggggct ctacaaggct ctgatttgga ccaaggagaa gttcaacagc 360
cctgtgatgc tcatcgga gaacggaatt gaccagcctt gaaatgagac cttgccgttc 420
gctctgtacg acaagttcag gatagactac 450

<210> 42648
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-H10

<400> 42648

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tcgattcgga gttgcggcgg cggttcccaa attcataggc gtgatggcgg cggctcccta 120
atctggaggg cgagctgcgg cggggccctg aggcgggcga gcagtgggtg cgcgccatga 180
ggcgcgactg tctccagcga cagttgccat gctaggcaca tgtgggtcta acggcgacga 240
cgggtcttgcg agacacgtgt tgcgagggt 269

<210> 42649
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-H11

<400> 42649

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gtggttgttt accaaagcag tccgtcatga tttactccac aaaatttgca agacctcagg 180
ctggaccggt ggacttcgtt ggcaggcctc tggttcttgg acgctcggac aagagagcag 240
ttttgatgca tgccactatt gaagaaatcg aagcggagaa atccctcatc gaagaccaag 300
ctaaagaaaa gatggagaag gcaatcgaaa cagtccaagc taacttcaac actgtgagga 360
caggacgtgc aaacccggcc atgcttgacc ggattgaggt tgagtacta 409

<210> 42650
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-H12

<400> 42650

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ggcccccgaa ggtgccgccc ggcccccaaca tcaccaccaa ctacaacggc aagtgggtca 180
ccgccagggc cacctggtac ggtcagccca acggtgccgg cgctcctgac aacggcggtg 240
cgtgcgggat caagaacgtg aacctgccac cctacagcgg catgacggcg tgcggcaacg 300
tccccatctt caaagacggc aagggtgtg gctcatgcta cgaagtgaga tgcaaggaaa 360
aacctgagtg ctcgggcaat cctgtcacgg tgttcacac agacatgaac ta 412

<210> 42651
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-H3

<400> 42651

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gtcaaggcga actttgtgta cccgagtggg gtggatcggt tcaagaggca attcgttcat 180
ctcgaagaaa ttgctgctaa gggtgagaag actagcccac aattgcgaca acatacttcc 240
ttaccaagag aaagagtaaa tgacagcggc gacgaccttg agaaaccaag tgcagattac 300
tgcataagat tgcattgatg tgatcaactg tcaagctctc gtaactttct gaagagcgaa 360
ag 362

<210> 42652
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-H4

<400> 42652

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actgttccta tgtggggact acatggagga ttatgaggte atgggtccat tccaggctct 180
ccaagctctt ggctgccatg tcgatgccgt ttgccccgac aaggagagctg gggagacgtg 240
cccgcagacc attcatgatt tcgaagggtga ccagacctac agcgagaagc ctggccacga 300
tttactctg acagcgtcgt ttggaagtgt ggatgcttcg agctacgacg cgcttctgggt 360
tcctggcgga cgggcttcag agta 384

<210> 42653

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-H5

<400> 42653

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gtttgctcag aggaagaacg cggaagacgc gttgcaaggg ttgaacggca gcactattgg 180
caaacaggcc gtgcgtctct catggggctg caaccagca aactagccgt ttaagggcga 240
caatggcaac atgcaatgga 260

<210> 42654

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-H6

<400> 42654

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tggctctgca ttctccacaa tccatgtgac gcccgaggac gggttcagct atgccagtta 180

tgaggttatg ggcttggatg ccactgctct gtcttatggt gaccttgtca agagggctcct 240
 tcggtgcttt gggccctcgg agttttccgt tgccgtgacc atcttcggcg ggcgtggcca 300
 tgccgggaca tggggaaagg cacttgggtgc agaggtctat gactgcaaca acatgggtgga 360
 g 361

<210> 42655
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-003-Q1-K1-H9

<400> 42655

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 gatgaagaag gtctctctgc cgcacctcgt cgccgcgcgc tcggccaccg ccgtgctggc 180
 ctcggtcgcc tccgaggcgc cctccgaggc gcccgccggc gcggccgggtg gtgcggctgg 240
 ccctagcgca agcggcgccg tcgtcgtcgt cgtgcccgcg gtcggggcgc tcgtcgactn 300
 ctccctcggc tactacctnc actgagcgac gacgcgcggg gcggcaacgt tgggatgcat 360
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 aattggttgg ttggt 435

<210> 42656
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-A1

<400> 42656

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 aacgccggga tggtggcagg cggcatcaag gacgtgccgg cgaacgagaa cgacctccag 180
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gggttcgaga agcttgtgaa ggccaagaca caagttgttg ctggcacgat gtactatctc 300
 actattgaag tgaaggatgg cgtagtcaag aagctttatg aagctaaggt ctgggagaag 360
 ccatgggaga acttcaagca gctgcaggaa ttcaagcctg ttgaagaggg tgctagcgcc 420
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<210> 42657
 <211> 481
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-004-Q1-K1-A10
 <400> 42657

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 acagactgtg gaccagcaac aacgcctttc acagtgttcc gataagctga tgacggatgt 180
 caataggaac ttgtaacctc agaatcgtga cagattcact caaaacctga cagcatttag 240
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 tgcacgatgt aaatactcca gttaccttct tttttggaac cacctttctg tgggttgaga 360
 aaagaagagc ttgtccttag gtttgccctg gattggctga agatgggtctt ggtgatgcat 420
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 t 481

<210> 42658
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-004-Q1-K1-A11
 <400> 42658

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 gaagggacac caccgctctt gccgtggcct gctacgacct ctcacagttc ctccagtacc 120
 atccatctgg ccgaatcgtg gtggcagacc tcaaggccaa ggaccgagtc atgaagctca 180
 tgaatcatga aaacactgaa gtgcagaaaa atgcgctgct ctgtgtgcag aggctcttcc 240

ttggcgcaaa gtatgccagt tttctgcggg cctgagagaa accgagcctt ttttgtattt 300
 agatccagag aactcctggc catttttcaa aatggctgtt aagaaaacct tgaaaattct 360
 tgtccattat atcctattgt tattttattt ctgagaccga tgtataataa ataattagag 420
 ccgtaccatg ctgatgt 438

<210> 42659
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-A2

<400> 42659

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 gaattgagga gcgcactgaa gctaaccgcc ttgcgcgcgc atgagtcgcc tcctctcgcg 180
 gcagcacctt gccgtcgtcc gtgatctgc accctttgcg tgcgtgtcca ggtgatcccg 240
 cctctcgcgc cctttccccc cgatcaatcg cgcgtgcaaa ctgaggtgtc gttgcgtggt 300
 ctgatgcgaa ttgggggggat cgcactaatg gtggaaatgg aaccatgtga ctgttcgcca 360
 ggctacatgc gtgtgttcac acttttcaaa ctgacaggat atgttttt 408

<210> 42660
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-A3

<400> 42660

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 tatccccact tcaattcata cccttgatc accctattct tgtgatgtcc cgatgggtga 180
 agaggccata gacgccatct gcaagagcca cggaacacca ccagatgaga agattgccat 240
 caccaaagct attataaatg tatcgaatgg atccaagccc ccactctttg ctggcatcat 300
 agcacttgtg atgagcatcg caacgatggc ccgtctgacc cgcagcatga tgccctgggaa 360

ggttctcggt gctgccatag gtggagctac cctctc

396

<210> 42661

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-A4

<400> 42661

ccagcgtgca cgaggtcctt tgcgtggggg cagccaggga ccaacacaga tccagcgtgg 60

acgtggctgg cacaagacg acatgcagaa aatggagcat gcattgaatg ccatgaggaa 120

caatagatat cgtacattac ttttgttctt gatgtccaaa cctctactgt tcctctttct 180

ccaacaacaa gttcttttctt ttctggcgag caaaagtgtg gataacgtgt tagagcgcag 240

tgaaaacgag actcgagaga atagagaaaa tgacagttgt cgatctttat tgcagagatt 300

ctgggttata taaa 314

<210> 42662

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-A5

<400> 42662

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aagtggacaa agggcttttc catcaatggc acggttggtg aagatgttgt ttctgagttg 120

agcagggcca tggagaggca gggactagat atgaaagtta cggcattggt caatgatata 180

gttggcacat tggctggtgg gagatatatg gataacgatg tagttgcagc cgtaatattg 240

ggcactggta caaatgcagc atatgtggag catgcaaatg caattcctaa atggactggg 300

ttactgccta aatctggaaa catggttaatt aatacggaat ggggaagctt taaatccggc 360

aagcttcttc tctcagaata cgacaaagcc atggactttg aaagttgaac cctggagagc 420

agatatacga aaaaatgatt tctggcatgt atctgggaga gaatgttcga agaattt 477

<210> 42663

<211> 77

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3075-004-Q1-K1-A6
 <400> 42663
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 tcatagtcaa atctctc 77

<210> 42664
 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-H1
 <400> 42664
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 gcagcaggaa gctaaataag gttatatata ttgcattaaa aaacatgcac cgcttaccat 120
 atatactact gagacttttg aattctagta taagtaatcc ttttggttgg ggtaggagg 180
 gcaatctaata catgtatgcc gaattccaaa tagtggaaaa caagctaaat gttaaataata 240
 catgcctatt ttggagggca tttttttt 268

<210> 42665
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-F12
 <400> 42665
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 acgctctcat cagcgaagca ggaagacatg gttgatgtga acttgaggtc tggcaatgca 120
 aactcgtccc agtctcaggc tcaggctggg ggatgcagtt gttagttgca gtctctgaca 180
 ctgctgctc atgatctctg agaccctgag catcagaacg cgttaccact gatgcttctc 240
 tcgggaagga gagttgatcg gcattgaaca cgcacacgct atagttgtta cccggtgaat 300
 ggaccatttg cattggaacg a 321

<210> 42666

<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-F3

<400> 42666

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gggtttggtc ggtcagcaaa atatcatgtt agacttggaa aataaagcct tgaagcaacg 120
gcttgagagt ctatctcagg agcatctcat taaacgttat cagcaggaga tgtttgagag 180
ggaaattggc cgccttagaa cattgttcca gcagcagcaa cagcaacaac atgtgccgca 240
gcagcaggct cctaccata gccgcagtaa cagtagagac ctggattcgc aatttgcaaa 300
cctgtctctg aaacacagtg atcccagttc atggcgcgac gctttctctg gccttcgcat 360
ttaagaaccc tttggttcag cttttggatc cctgagcttt gcagaacctg gtgccccctt 420
atgccac 427

<210> 42667
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-003-Q1-K1-F4

<400> 42667

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tcttcatcca gccttctgct ctgcgcggtc gaaatggang cgacgagcaa ggcgatggct 120
tcaggcctcc tcgttctgct gcttctcatc aacacaggct ttgtcctgcc cgtccattcc 180
gaggactgct gggccgacac ccgcgtcatc tgcaccaaga cgcacaactg ccgggacgac 240
acttgcgagg agcgcggcat gccggacggc cgctgccact gggagttccc caacctggtg 300
cccttctgcc agtgccctgcg ccccaactgc cactagtccg ggcgcctcgg attggtcac 360
ttcgccggcg attatggatg gtgcccact gcgactgccc aatctggttc atttcgtgtg 420
gtta 424

<210> 42668
<211> 365

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-003-Q1-K1-F5

 <400> 42668

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 acgagggcac ggccctgct accatcgta tggcgctgc tgggagagtc tcggagcttg 120
 tcaatataca gctggctctc cgggacaagg tgccgattgt gaggaggttc agtggaggtg 180
 gcaccgtcat tggatgatcag ggaacgggtg ttgtgacttt catttgcaac aagaatgttg 240
 ttgctgggct gcagcccttt ccacgggaca tcatgtcatg gagtggtcag ctatatggga 300
 aaagttttga cagatttggg gaatttcac tacgtgagaa tggcatgaaa ccacacagaa 360
 ttctt 365

<210> 42669
 <211> 254
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-003-Q1-K1-F6

 <400> 42669

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 tgggtggcgg acgatggcga catcgtgctg atggaaatcc aggacaagtt gtcggctgag 120
 tggaagccca tgaagctctc ttggggcgcc atctggagga tggacactgc caaggcgctc 180
 aagggcccct tctctatccg cctcaccagc gagtccggca agaaggatcat cgctaaagac 240
 atcatcccgg cgaa 254

<210> 42670
 <211> 232
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-003-Q1-K1-F7

 <400> 42670

 ccaattgcct cttattacat tattacaata gattgcacgc atctagatga aataataaga 60
 caggtggatt gatcaaatc agaagccgct tatggctatt ctctgaagt tttcagatgt 120

gtggatgtcc acgtagctct cttggactgg gatctgaatg atagacactt ccttggtggg 180
 ggatgcgcca ttgtctatca gggtagctag ttagtgccctc tcgttggtta tg 232

<210> 42671
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-F9

<400> 42671

cccacgcgtc cgatcacgcg tacgcatgaa tctatccttg caccatcat cttcgtgact 60
 ctaggacatc gcaccagacg aactaagcat gtcactcgcc acagctgctg gtctcttcta 120
 catcctcgat gtcgatgcgc taagcgcggc cgaggcaccg gcagagatac cgaaggcacg 180
 cactcctgac aaggcaccgg acgagtcact gaaggcaggc aatcctgcag ctgctggcaa 240
 ggcacccgag tctgctgcca ctagaactgc ccccgctaag gcacc 285

<210> 42672
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-G1

<400> 42672

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 gccactgacc caagagccaa gatcatggcg tcattcttct gcgtccgcct ccatcacctg 120
 cgtccacct ttccgccgtc gtccgcccct ggcgccccaa ccaacctcca gttccgcgcg 180
 gcgagctgcc ggtggcggcg gcgggttctc gttcccgcg cggcattctc tcccctacgc 240
 ctctgcgcca cgggttcccc gcagccgcct cttggcagtg acagcaacgc tccgttgtcc 300
 cgcg 304

<210> 42673
 <211> 323
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-G10

<400> 42673

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ggggtcgcgc cgcctggac ctctgcagg tgggtctctt cgccgctgtg ctctcgtcg 120

tcgtcgccga cgccggcgtg acgagccagt accggcgga gctggaggcg acggtggaga 180

tgccactgga cgccgacgtc ttccgcgtcc cgccggggta caatgccccg cagcagggtc 240

acatcacgct gggtgaccag gagggcacgg cgatgatcgt gtcgtgggtg acggccaatg 300

agctgggcag cagcacgtc atg 323

<210> 42674

<211> 325

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-003-Q1-K1-G11

<400> 42674

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catgaccgag gcgtccggca ccatgtccgc aggcacgcgc ctgccaccct ccaacgccgg 120

agcgccctcc tacggcgagg cggcgccttc cgggggctcc gccgatgcc cgcgggcgc 180

ctccgagggc cctgcgagcg ccagcggccc gtctggtgac gacgcgcgg cgtccggtgc 240

tgggtgccagc gcgtcggctg ctgaagctct tccgggntng gcctatccgg cccctctagc 300

gcaccaacgc catcgtcgtc gtctg 325

<210> 42675

<211> 280

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-003-Q1-K1-G12

<400> 42675

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ttgcggcgct cgtcgccggc gggtcgtgcg ggccccgaa ggtgccaccc ggccccaaaca 120

tcaccaccaa ctacaacggc aagtggctca ccgctagggc cacctggtac ggtcagccca 180

acggtgccgg cgctcctgac aacggcggtg cgtgcgggat caagaacgtg aacctgccac 240
cctacagcgg catgacggcg tgcggcaacg tncncatctt 280

<210> 42676
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-G2

<400> 42676

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aggaggggtt catcgacaag cagcatcgc actacgtcgc tcacgacgcy ctcccatcgc 120
ctgacacgag tggagctgcc aatgatgtct atgaatttgc gaaagccatc gggaagtcca 180
aggagacgaa gcgcaccgag ggcattctga cgtcggacat catcatgagg atcttgaagg 240
actacaacca gtacatcatg cggaacctca cccgcgggta cagccgcaaa gatctcggcg 300
tcagctacgt caaggagaag cagctgagag tcaacatggt gatcagcaag ctacgggaga 360
aggtgaagga gcaccaggag aagatccaca gcgcg 395

<210> 42677
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-G3

<400> 42677

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cacggtcgtc cgatccctgt ccaccgcgtt gggagcgccg cagcccatgg acgacaacga 120
gagagagaaa gagaatgaga atgagaagga gaagcactac gggactgacg tcgaggatga 180
agaagaggac gaggaaggta acaagcgagt cgtggtgctt ggccccccagg tccccctcaa 240
ggagcagctc gagctcgaca aggatgatga gagcctgagg aggtggaagg agcaactcct 300
tgggcaggtc gacacagagc agctgggaga aactgcggaa c 341

<210> 42678
<211> 407

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-003-Q1-K1-G4

 <400> 42678

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 ccggtgtga tcgcggttgt tctgatatgt gctactatgc cactgtgtat ggatggacca 120
 ggggtttggg ggttttctcg acctgcatga gaagctctta atataatgct cagggtatc 180
 ttaccccccg catgtccagt tttttatatg tttcatgcgg tctaaattta gtgttatggt 240
 agttctctta ttttcaaggt ggtactcccc ctgttccaaa ataagagtca ttctcgcttc 300
 ttgagaagta aagttaatat aaacataat tagtaacact aggtaaatat tcgaatgtat 360
 tttcataata aagttatttg gggattttaa tgtggataat attttct 407

<210> 42679
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-003-Q1-K1-G5

 <400> 42679

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 cgcatggcc atgctggctc gctccgcgc gcacctcttc ttcttcttc tctcgtctc 120
 caccgcgcc gccgtgcgga ccatccccga cgaagccgc gggcccgaa acaacatcca 180
 cgaggcgtgc agcaagacgc tgttcccaa ggtgtgcctg cacgcgtca aggacaacc 240
 cgagtgccag gcgggggcgc tcacgcgcgc cgggtggcc gagctgctcg tgtacgtgc 300
 gggcgatgtg ggcatgaccg tggccgcgtt cgcgaccac gagc 344

<210> 42680
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-003-Q1-K1-G6

 <400> 42680

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gtgggagagt cattcaaacc tccaaagaca tgcacaaccg tttcatggac tttctataac 120
 ttctatgaga agagagagca agattgataa aaagacttgc caaaatcaaa gaggagcagg 180
 gacagattga tgaggctggt gggttgatgt aagaagttgt aagtttgcac cataactgaat 240
 ttggaccagc gtaccggatt tgtcaaggct acgctttgat tgaatacgag aagtttgaag 300
 aagttcaggc tgcaataaaa gatctggatg gagctgacct ttataaaca ataatgagtg 360
 ttgattgggc atttagc 377

<210> 42681
 <211> 295
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-F11

<400> 42681
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 gatgagcttg ttctgctgct gctttattgt gcatatacag tgggtctcta cctgcacctc 180
 gctgtgtcgg ttgtgcatga aatcaaagat gcccttggaa tctattgctt caggataact 240
 agaaaggagg cttgaacttt gtagtgaaga tatattatta ttacttcaca agtgc 295

<210> 42682
 <211> 203
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-G7

<400> 42682
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 agcttaagca aggcaaggca agagaatccg tacgtttagg tgcaagtcgt aggtgaagatg 180
 gacgcggacc aacagggcgt ggt 203

<210> 42683
 <211> 403

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-003-Q1-K1-G9

 <400> 42683

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 cggccgggct cttgttgcta gccctcgcg tagtgctgga caccgcccc catgtagcgg 120
 acgcaaagaa gaagagagcg gccgacagcg tctagacctc tgaagctaata actaacaggt 180
 atactacagc tcgatgtgca gctggtatat acgtcatgcg tgctaaaatg agcggttatgt 240
 tattcatctt attctcaagg tggactcca cctgttacag aattagaatg attctcgctt 300
 cttgagaagt caaagttaata ataaaacata attagttaca ctaggtgaat attcgaatgt 360
 attttcataa ttaagttatt tggagatata aatgttgata ata 403

<210> 42684
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-003-Q1-K1-D12

 <400> 42684

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 gcagaagttt tcccaggcga tgcagaaggt cgggatgctt gacgtgctca tcggcgaggg 120
 caagggccag gtaaggaagc agtgccgctt ggtgaacggg caggagaagg aggagaagca 180
 gcagcagccg caggaggagc aggaggagca gcagccaccg gagctggagg aggaggagca 240
 gcagcagccg catcagccac agcttccatg gttcctgcag aggcagcgcc cgcccgttct 300
 tcttccatgg ctccggcccc atccacggtc gcgtcgaccg ttccggaaac atccggtggc 360
 cgacctggtt aacggatttt tccgtggttt tcaactgaagg cgagcactat gctcgggacg 420
 tagacctnca aaatatgcaa t 441

<210> 42685
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-D3

<400> 42685

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agagttatac aaatagaaat gctgcacctg atgttggtat tagagagcct catttgata 180
ccttctctct gaggaatggg aagctggagg ttactgaaat tttcaatttt tcacaagatg 240
atctgttgac cgaagacatg atgatacttg atacacactg tgaggttttt gtttggatgg 300
gtcagtgtgt ggagacaaaa gaaaaacaga aagcatttga cattggccag aaatacgtac 360
gaaatgccgt ggcctt 376

<210> 42686

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-D4

<400> 42686

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gggggcgggc ggacacaagt gcagggtgagg acatcatttc gaaacttgaa aggtgcatgc 120
atcatcttaa catgaagctc cactcatttt agattaattg ttggtgacct gatgctccaa 180
cttgaatatg ttgaaccaa caatgtcaga atacatcaat ccaaacattc ccagtacatc 240
aaggaattgc tggtgccacc tgcacttat 269

<210> 42687

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-D6

<400> 42687

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acggatggca gtcgggaaga acaagaggat ctccaaggga aagaagggtg gtaagaaaaa 120
gaccgtcgat cccttctcta agaaggactg gtatgacatc aaggcccat cggtcttcag 180

tgtgcgcaac attgggaaga ctctcgtgtc caggacacag ggtaccagga ttgcctctga 240
 tgggtctgaag cacagagtct ttgaggtttg tctagctgat cttcaggggtg acgaggatca 300
 ggcttacagg aaaatcaggc tccgtgctta agatgtgcaa ggcaggaatg tgctcacaaa 360
 cttctgggg 369

<210> 42688
 <211> 148
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-D7

<400> 42688

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 cacgttttct tcttccgaga gcaactatgta caaggtgaca ttataaaaga ttaagatagt 120
 gaaggcctta ttttcgcgag gctaattgt 148

<210> 42689
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-E1

<400> 42689

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 ggcgcgccgg tggacgatgg cgagccgcct cagcagtgcg cgaccccggt gagcgtggag 120
 gaggcgtgcc gcggcgctc cgagacgcac gccggcgtgg cctacgacca ctgcatggcg 180
 tcgctgggcg ccgacccgcg cagcaaggag gccggcaaca agaacatgca cgggctggcg 240
 gtgctggcca ccaggatggc catcgaccac gccgtcagca ccgagtccaa gatcgccgac 300
 ctccttcgcg acgcgctgga caaccttaag gcgaagatct acggcaaggt catggagc 358

<210> 42690
 <211> 282
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-E10

<400> 42690

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tcttataata agatatattt tctacaaaga tcataagaac aaatgatatt taactattta 120
tcaataattt agctatcacc atctgagagt tttgtaaata tatgtactag tctatttgca 180
taaattataa gatatggata tgctagataa catatactag gctagcttat ctatcaacgc 240
actcatcata taattgacat atgctagtag atttcacatt tt 282

<210> 42691

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-E12

<400> 42691

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ccgggctcgc cggcaaccac cagatgcgcg ccgtcgccgc cgtcgcgctg ccggagacga 120
aagactggag ggaggatggg atcgtgagcc cagtgaacaa ccagggccac tgtggatcat 180
gctggacctt cagcactact ggtgcgcttg aggctgcata taccaggca actggcaagg 240
ccatctctct ttctgagcaa cagcttggtg actgcgggtt tgcatcaca aatttcggat 300
gtaagggggg ccttccatcc caggcctttg aatacatcaa atacaatggt ggtcttgaca 360
ctgaggagtc ctaccctta 379

<210> 42692

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-E2

<400> 42692

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atggggacag aggaggaggg ttctgactac cttgttgatc actcaattgt catgtacctg 120
atggaccag agatgaagtt tgtcaagttt tatggcaaga actacgacac agattccctt 180
gctgacggtg tcgttaaaga aattaaagag cacaagtaaa cagtagttgg aatgccactt 240

tgcaacgtca gccttgtttc tgaatttctc ccgagagttt tgttaaataca agcaaaaacc 300
 aaatggcaca cgagatcatg tggcaatagc tgatgacatt tgaatctcgc ggcggctttt 360
 atttcagcag attcgggtgc acatgttgcg ggtttgtgca cgtttttgtc ac 412

<210> 42693

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-E3

<400> 42693

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 ccggatggag ctgttgcatc ccagaatcca aaaatacaga cagccatcat ggactgctcg 120
 cagaaccctc ttaacattgt aaaataccaa aatgacaagg aggtcatgga tgttttcatg 180
 aagatatcac aaatcttccc ccaaattaac ggctagctga tcttcgctcg gggatagcac 240
 ttctgatttt tgtcggcccg tcatctccag tctggagggc tgctgcggtg gcatctatca 300
 agaaaagggt cgtgacgctc cgatataccc ctcccgtgtc aaggtttttg aagttcttat 360
 gtacatcatg tgatgt 376

<210> 42694

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-E4

<400> 42694

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 cggcaagcga gctagttttt gtagatctgc tatggtgtgc tttattccgt tagtcgatat 120
 atgttgcatc gtttctagtt tcgaagtcca tttatttact tctctatgat ttctacacac 180
 ggcctaataa tcttgctaag gccctgattg aatggaaaat attttttggg agttttt 237

<210> 42695

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-E5

<400> 42695

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ctggcggtgaa gagtttgtca accttccgtg cttgcaacca tgatattatc tttatttagct 120
gtgggcaagt tggacaaagt aatgggtgaaa ataactggtc tgggaaccat gtggaagatt 180
cttctcttca aatgcttgaa gggaaatgct tctgggggtta aataccaact aatttacttg 240
cttcattcttt tgagagttgt gtcattttaa gttggggacat attgtggagt tggcatctaa 300
agttacaatg ag 312

<210> 42696

<211> 179

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-E6

<400> 42696

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ctttaataat tagtcagact accttgcttg caaccatgat attatatata ttacctatga 120
tcaaattata caaattaact ttaaataata ctactatcat aaccattttc aatattttt 179

<210> 42697

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-D11

<400> 42697

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tatgggagta taccggtgag ctattggaag atgaagaagc tgaaaagaga gagaatgatg 120
agtatctatt tgatattggt cataactacc atgataaaga actttgggag gggctgaagt 180
cagtggttgg cctaggatct gctacttcgt cttctgagac catggaaggc ttcacaatag 240
atgcatctga gtgtggcaat gtgggaagat ttatcaacca tagttgttca ccaaacctct 300
atgcccaaaa tgttctctgg gaccatgatg atatgaggat gccacatgtt atgttttttg 360

ctgttgagaa tatcccgcca ctacaggagc tgacctacca ctataactat aagatagggg 420
aggtctacat aaat 434

<210> 42698
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-F1

<400> 42698

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ccgtgggtcac ctggcggtggc tcttccggcc tgtggattat gtgggcggaa ggatagggat 120
ggagcctgga ggaggggaga gacgcgtccg gtgacgtccc ctgtccaccg ttttgagtag 180
gagcgctgtc aacgtggcga ggattcaagg aggacagaca gtccatggca ggttgatcac 240
aatatcaact gtttgtttta ggtaggagcc ctgacaactt gacatccgac accgtgacat 300
tgagggtgtgc tccggaggct tctctcgat agtttaaatt ttggaacttg attgctggtc 360
gaggtgaaat atttatactc catggcctga ttgcagtgtc t 401

<210> 42699
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-F10

<400> 42699

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tcgatcaaga acgccatctg ctaggttagg gtgtgttggc cctgccatgg gggacaggcc 120
ggcgccgatc gagaaggtcg cgtgcccga gaagatggcc ttgttctctc acgccgtcgt 180
cacgtcaccg ggacaccagc agcagcacgg cgcctcgtcg cacgaggcgc ccgcccgaa 240
catcacgccg tggacaacag ccaggaataa gcagcagcac ctgccggtga gccccggggc 300
gtgcctctgc tcgccgaccg ttcacgaggg ctcgttccgg tgcaggctcc accgcggcag 360
cggcagcggc tccggccttc acgagatgaa gatgagcaag 400

<210> 42700

<211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-B6

<400> 42700

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 gaggattgtc atcaagacct gtggcactac caagctcctg ctcaccattc caagaatcct 120
 tgagcttgct gaagagctgt ctatgccact tgctgctgtg aagtactccc gtgggacgtt 180
 catctttcct ggcgcacagc cagcccccca caggagcttc tctgaggaag ttgctgcact 240
 taaccgctac tttggcggcc tgaaatctgg tggtaatgct tatgtgattg gagatccagc 300
 aagacctgga cagaagtggc acgtcttcta cgccactgag taccagagc aaccaatggt 360
 taaccttgaa atgtgcatga ctggtctgga caagaagaaa gcttctgtct ttttcaagac 420
 taatgctgat gggaacacaa catgtgccaa ggaaat 456

<210> 42701
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-C1

<400> 42701

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 cgagtcggtc ctcccagact tctgtacgc ctctcggcg cgctctttcg ctgccacagg 120
 agccgcgcg cgctccttg tctcctcccc agcgctgcc acggctggag caggaggcgg 180
 cgtgccgttc tccatccagg cgccaagga gaagatcgag atgtactcgc cggccttcta 240
 tgccgcctgc actgccggag gaatcgccag ctgcgggctc acccatatgg ccgtcacgcc 300
 tctcgacctc gtcaagtgca atatgcagat tgaccagcg aaatacaaga gtatctcatc 360
 tggatttggt atcctgttaa aggagcaagg ggccaggggt ttcttcaggg gatgggtgcc 420
 tactttgctt ggta 434

<210> 42702
 <211> 384
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-C2

<400> 42702

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ggcgagcgga agttcatcac caaggaagag gagccagaac agtactggca gaccgcgggg 120
gagagggagg gggagaaccc catgatgaca cccctgccct acatcatcat cttcggcattg 180
tccaccccct tcgtcatcct cgccattggc gaaggctatg gctggatcaa ggtccctgtg 240
cgatgaccgt aacgcgatca gccagcctgg atcatagatg ctgactcgtc agcctgcattc 300
ttattcagcg tgtgtcctgc gactttggac cttcatatat agagacaaga gtttttgcgt 360
gtgaacataa ttgcatgatt gcgt 384

<210> 42703

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-C3

<400> 42703

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ggggccggct cattcgggtga aagggtgcgca gttagggttg ggagatctct tgcctcacga 120
cacgagcagc agaatttgct gagggccgct ggttgctgctg agaggtccgg gccttcgtgg 180
gatcttgaaa attgaatggt ctaatggagt ccaaggggtg caagaagaag tctagcagta 240
gtcgttcctc cctgatgtac gaagctcccc ttggctacag catcgaggat atccgccctg 300
caggcggcat caagaagttc tccgctgctt actcgaactg cgcgaggaag ccatcctggt 360
atctctgttg tcatccccat cctagtagcg tagaaaccaa ctgcattttc attttgatct 420
ccctaatacc tccggctagc tgctt 445

<210> 42704

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-C4

<400> 42704

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tcgtcgggtg cgcgctgtgt ccccgcgccg atgccaccgc gttcgaggto ggcgggcgacg 120
acgggtgggt cgtgccgccc gccagcgacg gcggcaggta caaccagtgg gcatccaaga 180
accgcttctt cgtcggcgac gtctccact tcaagtacag cgaggactcg gtgctgggtg 240
tgacggaggg cgactacgac agctgccgcg cgtcgcaccc cgtcttcttc tccaacaacg 300
gagacacgga tgtgacgctg gaccgcgccc gccccgtcta c 341

<210> 42705

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-C5

<400> 42705

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ccgtgtagac cagctcgtgc ttgccggggc cggcgctcgat gtagaccgtg cagttctcgt 120
cgatctcttc ctggatcagc atcttcgaca gctgcgtcac caccctcttc tcgateccacc 180
tactgattgg ccgcgcgccg tacacctgtt gctgaagcca cacaagatag aaagttcgca 240
tcacaggtg tcaccgacca attcagatgg atctaatacat ggatggtcac ataccggatc 300
gtatgagaga gacatgatga tg 322

<210> 42706

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-C6

<400> 42706

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caggaactgg tggtgaaaag atatgcatag gtgaccaaga actacaagtt gtttttgcac 120
ctggtcatac agatggatcat atggggcttc tccatgtaaa taccaatata ttggttggtg 180
gagatcattg tgtagggcat ggaagtgcaa ccttggacag tagaaatggt ggcaacatga 240

aggattactt tgaaactaca tacaaattct tggagttgtc accacatgta ttaattccaa 300
 tgcattggaag gattaatcta tggcccaagt atatgctttg tggatacctc atgaatcgaa 360
 aggctagaga a 371

<210> 42707
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-C7

<400> 42707

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 gggcggtgca cagtgcgcgt gtgcgcgcgc acgcggcgcc tcctccggcg ccaccagaag 120
 aagaggccaa cgaagcacca ccagacgacg gccgacgtgg tggcagcggc gctgtgcgcg 180
 cgtggggcgg ccacgcacaa gggcagggcg tcctcggggg cggcgggcga ggtggccctc 240
 tggagccggc ggatcctgat gggggagcgc tgccagccgc tggacttcgc gggcgccatc 300
 cactacg 307

<210> 42708
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-B5

<400> 42708

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 ccgggttctt tggaccacta tatccaggag cgacgaagtg atccaccgcg cagccatgga 120
 gatgaagaag gtctcttcgc ccgccctcgt cgccgcgcgc tcggccaccg ccgtgctggc 180
 ctccgtcgcc tccgaggcgc cctccgaggc gcccgccggc gcggccggtg gtgcggctgg 240
 ccctagcgca agcggcgccg ccgccgtcgc cgtgcccgcg gtcggggcgc tcgtgcctc 300
 ctactcgcc tactacctgc actgagcgac gacgcgcggc gcggcaacgg tgggatgcat 360
 cgggtttggt tcatccgatt aactaattgt tatttttaat tacgtggttt gcgattggta 420
 aatggttggg tggtcggt 438

<210> 42709
 <211> 228
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-002-Q1-K1-H12

<400> 42709

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 ctgaaaaaga ggcgaaaacc tctgggctga ctgaagaagt acctgaggat aggatagctg 120
 tgcaggcttc cgatgcggtc tagctaaatt gtaaccagaa tagcaggact agcacgacta 180
 cgccgaatga caatgtgatc cagcaccatt ctagtgacac atgatcat 228

<210> 42710
 <211> 266
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-A1

<400> 42710

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 ttggaaagca gtagtagttt agtcaaatta gatatgcggtt ttaggattct agttgatatg 120
 cgtccattat tttgttcaca tcgaatgcag cagtgtgtta gctatgtagt tgcataccta 180
 tcataactaa gtctattaga agtatttcta ataatattta ggatctgtca tcaataaaat 240
 gtatgcaaca atacgactat tgtatt 266

<210> 42711
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-A2

<400> 42711

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 cccaacatca ccaccaacta caacggcaag tggtcaccg ctagggccac ctggtacggt 180

cagcccaacg gtgccggcgc tctgacaac ggcgggtgct gcgggatcaa gaacgtgaac 240
 ctgccaccct acagcggcat gacggcgtgc ggcaacgtcc ccatcttcaa ggacggcaag 300
 ggctgcggct catgctacga agtgagatgc aaggaaaaac ctgagtgtctc gggcaatcca 360
 gtcaccgggt acataactta cctgaactac caacctattg gttcctaac 409

<210> 42712
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-A3

<400> 42712

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 aagtggaaag aaacttccaa tggaagacat aagctttggc cagtgtcctc tgcaggggtgt 120
 tgaacatttt gggctctttg gaatttttga tggacatggt ggggatggag ctgccaaaac 180
 tgtcagcaag attctttcag aaaatctggg atacatgtta tctcattctg aaacaaaaga 240
 accagtgcag tcatgttctg atgcttctga tgagcttaga aattcttcta ctttgacag 299

<210> 42713
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-A4

<400> 42713

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 ccacagcggg tcttggaac acccttctat gatgagtgga agaataattt cccagaccag 120
 gaaacagagg aagatcaacc catcataggc cactctatca tccatggtgt gcacaaggat 180
 attcgtcggg ttgccggtac tgttccaaac gcgacggcaa caggagatat cgacatcatg 240
 gccatgtatt cgggtcacgg tgttgggcta atcacggaga tcataccagc 290

<210> 42714
 <211> 254
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-A6

<400> 42714

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gcgggcgacg tgggtggcgac gtgcatcgcc gtgtacgcca actgggagtt ctgcaagatg 120
caaggcatcg gctggggctg ggggtggcgcc atctgggcgt tcagcgctcg cacctacttc 180
ccgctggacg tgctcaagtt cgccatccgc tacgcgctct ccggcaaggc ctggaacaac 240
atcaacaaca agac 254

<210> 42715

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-B1

<400> 42715

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ttaccagagg cccttcatga aggggaagct ctacattcat ttcacggtgg agttccccga 120
ctcgtgga ccagagcagt gcaaggctct cgagtcggta cttccgcca agccttcgtc 180
caagctgaca gacatggaga tcgatgaatg cgaggagaca accatgctta atgtgaccac 240
catcgaggaa aaaatcccca ggagccaggc tatggctggt aag 283

<210> 42716

<211> 231

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-003-Q1-K1-B12

<400> 42716

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gccagcctgc aacgccggag cgccctccta cggngcggcg gcgcggttcg gaggcgccgc 120
ggacgcaccc gtcggcacct tcgagggcc tgccagcgcc agcgggcat cggtggtga 180
cgccccggcg tatggcgcca gcgccagcg cagcggcccg actgctgatg c 231

<210> 42717
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-B3

<400> 42717

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atggtggcgg aggaagaggc agaggtcggt ttgggcgagg tgaccgtaac cagggaaca 120
acttcgggtc aggagatggt ggcagctggg gctctggcag gggaaatggt ggccgcggtg 180
gttacaggaa ctggaacgat aacaatgagc gatccttcgg tgaaggtggt ggctggtccc 240
agtcccagtc ttccgattgg aatgccaaca aaggaaatgg cgaaggaaat caagctttct 300
cgaaaagcaa gccagctgg gaagcacaaa acacctctgg tagagatggt caggcatgaa 360
aaggtgatgc atacaactcc tggaataaga acagatcat 399

<210> 42718
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-B4

<400> 42718

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cgggctgacg gcctcccatc tcaccttcga gaacatcagg atggaggagg tggccaaccc 120
catcgtcatc gaccagtact tctgcccga gaaggtatgc cctggcaagc ggagcaactc 180
ctcgcagtgc tccgtcaagg acgtcacgtt ccgcaacatc accggcacgt cgtccacgcc 240
cgaggccatc agcctgctct gctcggagac gcagccatgc agcggcgtct ccctcatcga 300
tgtcaacgtg gagtacgccg gcaagaacaa caaaaccatg gcc 343

<210> 42719
<211> 115
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-002-Q1-K1-A10

<400> 42719

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 ggtcgggggaa atacctcacg gggggaggag tataacaagc cgatctatac cgcac 115

<210> 42720
 <211> 148
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-002-Q1-K1-B11

<400> 42720

aaactaatca atcactctct ctcttctcat tctctccctt caccactctt tacctctaac 60
 tcaatcccat tcttttcata acataaattc ctctaacaca actctcatac taccactttt 120
 ccacacatac ccaaccaaca cactaaca 148

<210> 42721
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-002-Q1-K1-B12

<400> 42721

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 cgccaactt taataccacc tcaacaccat cccacaactg tacacgaatc aaaatcttct 120
 acctcaacat aaaaggtaac taccaccagt accttgctta gatcaaactt tattcatata 180
 ccaaacattc ttcatacagc accatcaatc cctacaaaaa tgctcatgac atcgctcttt 240
 catactctac taccaccac cccattaagc cttccccttc tcttaacatt ctcaacttct 300
 ac 302

<210> 42722
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-002-Q1-K1-D10

<400> 42722

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gtttaataaa aaagggatcc atataaatca aaaatctaaa attttatcta tcttatcatc 120
 taataactat aaaaactatc aataacaaat ccatacatatc tttcttatct tatectactt 180
 taaccaatta aactactcta accgtacact catcacacaa ttatttactt tcacacaaat 240
 tccttaaaaaa cettcttttct tatcccatc ctttttttat ccaacacatt aaaacttt 298

<210> 42723
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-002-Q1-K1-D12

<400> 42723

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 gagaccatca agaagaagct gatccgcaa gcccttgaca tgatcaggaa acttgctgaa 120
 gaagaccctg atgagtacag caacaaggat aagacagatg aagagaaaag cgagatggag 180
 gagaagaagg gccagtagc caagttctgg aatgagtttg gcaagtcaat caagctgggt 240
 atcatcgaag acgcgactaa cagaaaccgc cttgcgaagc ttcttagatt tgagagtacc 300
 aagtcggatg gcaaacttgc cttccttgac gagtacatct cacggatgaa gtcagggcag 360
 aaagacatct tctacatcac gggaaagcag caagagcagc tggagaagtc tccatttctc 420
 gaga 424

<210> 42724
 <211> 174
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-002-Q1-K1-D9

<400> 42724

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 ggtataataa tatggatgcc gatgcactac ttaacaagga caatcacata taaaatgac 120
 agaaggcata tcatgttaac ttgcttaatt accattccaa catggttgaa acct 174

<210> 42725
 <211> 437

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-002-Q1-K1-E12

 <400> 42725

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 ggtcgtgttc cagcggagat aaataacatg gaaaaagact cctttgacct gtacattcct 120
 ggaaatgggt ctgggtcatga tctgcctgaa acgaaggctg caaaacagaa agttgcagat 180
 atggctgcta aattagcctc agagcttatg ccgtctgatg ttgccaaggc attatgggg 240
 acaaccaaga gttcttcaaa gataaataaa gaagttcagg agctttttaag gcttacctta 300
 agcaaggccc gagtcaagct gaccgatgat naccttttta accggatcat tatggacact 360
 aacagcatgg atccatttaa tgggtctctat gtgggagcat ttagtccata tggaccagaa 420
 attgtgcagc ttcgtcg 437

<210> 42726
 <211> 185
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-002-Q1-K1-E9

 <400> 42726

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 aacatcacca ccaactacaa ctgcaaattg ctcaccacta gagccacctt ttactgtcag 180
 accaa 185

<210> 42727
 <211> 272
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-002-Q1-K1-F9

 <400> 42727

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tgattaaaaa accaaaccta ccctaaaaac gcgacgggta aaaaatactg caggacaaaac 120
ctcctcccc tttaaaatat ccaacctttc ttccccaca attcaactta cttactcttt 180
tttaatctcc cctaaaacca attcacttac cccatttttc caaccatccc tcttcaaaaa 240
ccctacactt acccaattta atcnactttc aa 272

<210> 42728
<211> 217
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-002-Q1-K1-G12

<400> 42728

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gtttaaaact aacgtgcggc agacacacta cactccaaac ctttccatct aaatataaat 120
tgctacttat cacttcctac acatattaca ctttttacca taacactttt cctccatcaa 180
catccccctc ctatcttcat acctcactac cccttct 217

<210> 42729
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-H5

<400> 42729

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gtgaccacac tccgtgggaa gcaccgccgc ggtgagccca tcaccgtcgt caccgtctac 120
tactaccctc tggcagtcca cgtccactcc gtcggcatcg acttctgcct cgtctgagac 180
tccgtcgtca tgttcgtcca ctgtcacgac accactcttc ccatcacgct tgacatcatg 240
ctccagcac 249

<210> 42730
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-D5

<400> 42730

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agctttttct acaatagcat ggcgattgca taccctgtcc tgtacgtcac cctcttgtct 120

tcaaattacc tcaagaaagt gtcgctcttc tcccggactc gcattctactc cctggcttcc 180

atctccggat tctacctctc catcccttcc cacagcacc aaacatacca catcaactgc 240

ttcaacccc 249

<210> 42731

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-D6

<400> 42731

accacacca cacactcaat ttcaacaacc ccaaactcac attattttct ccattttctca 60

ttaacttcct ctggcgtatt tttaaaaatc tggggaccca tataaaacac aaattcaata 120

ttctttccat cttatcattt tataacttca aacatcacca ataacatatt cttccatact 180

ttcttatcat atcccacttc taccatttca ccttcttatt ccttacactt attacac 237

<210> 42732

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-D7

<400> 42732

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aatcaaaatt tatataaatt atgaatcttt tcgccacca atctctaata tgctaattctt 120

cttcagtcgt cactctcccg tctctaattc actgcctcta tccaatcatt tcacctcttg 180

cagctctccc ccttctatct aaatcctca 209

<210> 42733

<211> 193

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-E11

<400> 42733

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tttcaattaa aagtttgccg atccatatta cttcaataaa tttatccaac cactcaatta 120
ctaccaaacc cacatttcaa aatcttacia gcatattttc cattttcttat aaccaaactt 180
ccacttatat taa 193

<210> 42734

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-E12

<400> 42734

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atgttgaaac tgtggagtac aagaacatcg ggttgactgt ctgggatggc gggggccagg 120
acaagatcag gccactgtgg aggcattact tccagaacac ccagggtctc atctttgttg 180
tggaacagcaa tgataggac cgtgttggtg aagcaaggga tgagcttcac cgaatgctga 240
atgaggatga gttgcgtgat gctgtgttgc ttgtgtttgc taacaagcaa gatcttccaa 300
atgctatgaa tgccgctgag atcactgata agcttggact gcattcactt cgccagcgtc 360
attggtacat tcaaagcact tgtgctacia cgggtgaggg attgtatgaa ggcttggact 420
ggctg 425

<210> 42735

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-F10

<400> 42735

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ccgtagggac taaactacgg gcagctttac ccatctcaaa catctttact ctccacaca 120
atctatctaa ttactctggt tactacaaga atactaccac cgccaatcct cccatcgcat 180

cacttctctc taataaataa tccatagaac atactcagac ttatctactc aagaacaata 240
tactcactcc 250

<210> 42736
<211> 122
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-F12

<400> 42736

cccacgcgtc cgaagatatac taggcctttg tttcatcctt tgggactggt tggttaactt 60
gtttgcatgt ttttcttcgt ttgtaatttg aatgacaata aatgaattta ttgtgtagtt 120
gt 122

<210> 42737
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-G11

<400> 42737

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gtttgctcac tcaacaaaaa atcctcttat tcaattgact caatactatc aacttaactc 120
taaaatccta tttaaagcac aaacttcacc ctttattcac acatttacac tctataccat 180
attcatctca tacacctatt caaccttctt caaccactcc aaactccatc cataaataat 240
cttaaaatta ctccacacaa ttaaccctct tcaactaaaat cacttacacc ttcaatagct 300
tca 303

<210> 42738
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-G12

<400> 42738

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ctcttaccga gggctaagga tcaatcgggg tgctaaagct cactggcagc aggacgttac 120
gcttcagccc tttccagcga aagataaatg gctactgacg gcttggcaca catattacac 180
gtgtcacgat gacagttggc ctcgatgaag cgccccgctg tatcttcata ctcaactgcc 240
cctgcctgga gaagtccaat tgggtgctctg tcagatgggt gcaagtgaat ggtgaaaatc 300
tcattgatag caaacaaaag gctcctcttt cacaagtttc tggtcagtga tttatgactc 360
acggttcatt tttcctctat tgataacaaa aatgtgaatt tgtggactat ttctgcttat 420

<210> 42739
<211> 51
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-G6

<400> 42739

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<210> 42740
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-H3

<400> 42740

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ggaagacagg gcaagcgatg gtggtcggca tctacgacga gcccatgacc cccggccagt 120
gcaacatggt ggtcgagagg ctggcgact acctcgtaga gcaaggcctg tgaatggatt 180
catttaacct cgctcgcttg tccatgggtc gcagcaacga taccaacacc cgcattatct 240
aattggtagc ctctcttagc tacgcacgca ttttttagtct cctacacgcc cttggattgt 300
gcgtggctct gttaatcatc tctcatcctt cgtctgccat ttctcccctg agatttttgt 360
tccttggttg taccatgcat tttggcaaat aattttgtga ttccacttcc aaattaaagt 420
ttggttgctg tatggtttgt aaaccagaa ca 452

<210> 42741
<211> 190

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-A6

<400> 42741

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 gatgaacctt aaattctaca gggacctcat taaccttctc atatacttct atctcatata 120
 tcatacacia accattcctc tcttcaacca catTTTTacc acatatacctt ttaaaatcat 180
 ttccaaccac 190

<210> 42742
 <211> 454
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-001-Q1-K1-B12

<400> 42742

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 gaacgaggcg cagccgcct ccatccgcgc ctaccgctcc aagatcgaga ccgagctcgc 120
 ccgcatctgc gacggcatcc tcgccctgct cgactccac ctcgtcccat ccgccggcgg 180
 cgccgagtcc aaggtcttct acctcaagat gaagggtgac taccacaggt accttgctga 240
 gttcaagtct ggtgcagaga ggaaggatgc tgcggagagc accatgaatg cctacaaagc 300
 tgctcaggac attgctcttg cagatctggc tccaaccac cccatcaagc ttggccttgc 360
 tctcaacttc tcagtgtct actacgagat cctgaactnc cctgatcgcg cctgcaacct 420
 tgcaaaacag gccttcgatg aggcgatctc tgaa 454

<210> 42743
 <211> 174
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-B4

<400> 42743

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cacaatattg cgggagccca cctacaccaa tttcctctat ctcaaattctt atctcttctt 120
 cactctctga cacaccttca cctacgaaga cacctacaaa taccttccca atac 174

<210> 42744
 <211> 295
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-B7

<400> 42744

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 tgaataacaa tggatggggc tggtgaaaag aaaattagga cctctactgt tgaaataaac 120
 gacgaatcaa gagggcgtcc attccaaaag gccaaagattg agataatctt gggaaagagc 180
 gacaaatttg atgagctgat ggccgctgct gcagaagaga ggggcgaagt ggaagatggt 240
 gaagagcatg cttgaaaaca gtaccgatga caagctgctg ctgctgtgct ctggtt 295

<210> 42745
 <211> 243
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-B8

<400> 42745

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 tcataatggt ctgattacaa aaatcaactt agatctacat caataaactt tcgttgctat 180
 ccatgtttct gaccaatttc aatcaatcta tctttcactt tcatacactt attcttctat 240
 taa 243

<210> 42746
 <211> 147
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-C1

<400> 42746

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 cacaaattac tacctcatca attatac 147

<210> 42747
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-001-Q1-K1-C12
 <400> 42747

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 tccgcgagag tagagatgac aatgacccgc gtgtagatgg ttttcaaacc cgtacaagcg 180
 gatttaatac taaatccatc cgtacacatt atccattgtg ataaagatgc acaacatttt 240
 catagtgtaa aaattttata ttagtcgtgt tcatagtcaa aagtgactta ngacactcac 300
 acgattaatt tatggaacta aacttaatct gtcatatgca tcgtattttg ggtgttatta 360
 ttaattgtga tctcttactt aatngtggtg gtatctactt atacttagta actggtnata 420
 aaa 423

<210> 42748
 <211> 112
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-001-Q1-K1-D1
 <400> 42748

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<210> 42749
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-001-Q1-K1-A10

<400> 42749

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ctgactcata tgaccctgac cggttcggtc ccggaaggga ggaggacaag gctgcagggtg 180

ccttctcgta catctccttc ggtgggtggca ggcatgggtg cctcgggtgag cccttcgcct 240

accttcagat caaggcgatc tggacgcacc tactgaggaa ctttgagttc gagctgggtat 300

cgccgttccc agagaacgac tggaacgcca tgggtggttg catcaagggc gaagtgatgg 360

ataactacca gaagcggaag cttgtcgcgg acaactaaca ttgtggtcgc cagtctctat 420

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<210> 42750

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-A12

<400> 42750

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aagagtgcac atatatatat ataattctgc cgagagaaaag gtaatggagg cgggacgcac 120

gttccagccg gccatcatcc tgcttctcct gctcattgtg accaccgatg tggcgcatgc 180

ggcgagggaa tgctagaagg acagccagcg attacttggg gcatgcatgg cgtccgacaa 240

ctgcgccaac gtgtgccacg gtgagggtt ctccagccag aggtgcagca cctgtcgcgc 300

acgctgcac tgcactaagt cgtgctaaat taacctacat ccggcagttc gatggtggac 360

gtttaatcta tgtattggct tactagattg ttcttccccct aacaatcaga aaactcacct 420

gctggcatgt acgtagaagc ggatatgc 448

<210> 42751

<211> 122

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-A3

<400> 42751

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 cttgttttagt tatttttcatt tcatttggat taaatgccgt tgaaagaaat taggaggaga 120
 ag 122

<210> 42752
 <211> 258
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-A9

<400> 42752

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 aatcgctcaa gaaagaagcg gcttctgtcg tcgccgccga acgcgcttaa gccattcggg 120
 ggggtagcac cagtggaaga cgtggtggcg gacaagtctg tgacggttgt gaaggaggcg 180
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 cgtgtgagga ccgcgttt 258

<210> 42753
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-B6

<400> 42753

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 caccgacgcc aagttcctcg agtcaagtc gtggtctctc tccacgctcg gcggcacctc 180
 cacctgcgag gacgcctgca aggacctgcc caagaccagc gacaaggacg acgtcgtcaa 240
 cttcagcctc gacttcgaga agctgcagcg cgtcacgctc gacctcatca ccgaggcgctc 300
 cggcaccatg tccgcaagca tcgccctgcc acccttcaac gccggagcgc cctcctacgg 360
 cgcggcggcg ccttcggggg gctccgccga tgcccc 397

<210> 42754
 <211> 340

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-001-Q1-K1-B9

 <400> 42754

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 ctggaatcaa gcagttcatg gtctcgctgc gaatgtacgc aagaggtggc tggacatgga 120
 cagtgaacta tttgaagagt gccagcagca gtatatggat aaacaagcaa aagccaaaga 180
 gatgcatgag caacgagaat catcatggag acaattggaa gctgttggtt ctgccaaggc 240
 tgctggggat gacatggttt tgggtcaacta gatccatgtt ccttgcata ca ctgaaaaaca 300
 tgtgtgccaa gtttgaacac atattttgcc cctacagcca 340

<210> 42755
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-001-Q1-K1-C7

 <400> 42755

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 agccgtggtg gtagtgccgg tgggtggtcaa agttctctgg gttatctctt tggaagcggc 180
 gagccccca aaccagcagt ggcaccagct gcaagtgtc cacctgttga gaaaccatct 240
 gctgcaaaga ctgatgcggc caagcaggtt gctgctgggg ttaccagtca aaccaataac 300
 taccacaggg ctgatggtca gaacactggc aacttcctta cggaccgtnc tttaaccaag 360
 gtccacgctg ctctggcgg tggctttttc cttggctacc tgttccgtgg caactgatgc 420
 ccctgctggt gc 432

<210> 42756
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-001-Q1-K1-D11

<400> 42756

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gcaggtacca gtgctaccgt ggggtgctggt gtctccggag gtgccaaagt tgggtggtggc 180

gtaggaggaa atgcaggagg aagtggcaac gtctatactg gaaccgggtgc cgatgcaggc 240

gtttctggtg gaggatccgg tggcgccgat gctggtattg gagctaccat aggtgctggt 300

gtctccggaa gcgtcaaatt tgggt 324

<210> 42757

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-D12

<400> 42757

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atatTTTTca gtgctcatgg agttcctctg gcgtatgttg aagaagctgg tgatccatat 120

aaagcagaaa tggaagagtg tatcgatctt atcatggaag aactggaaaa aagaggaata 180

acaaatccgt gcatacttgc ttatcagagc cgagttggac cagtggaatg gctgaaaccg 240

tacactgatg agacaattat tgagcttggg cagaaagggg taaagagcct gcttgctgtt 300

cccattagtt ttgttagcga acacattgaa actttggaag aaatcgatgt ggagtacaaa 360

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cccacattca tttcggatct tgctgatgct 450

<210> 42758

<211> 478

<212> DNA

<213> Zea mays

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<400> 42758

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ttgcgagcgg cgcagaccct agtctcccgt tcccttttct cagcgcgcca tctaagcggc 180
gcagcctccc ccgccacggc cgccgcgcgg ggcgcgcggt ggtgcgcagc gccggcgcca 240
ccgtcccgtt cgccgcttcc atcctcgagg gtgatgcctg tcgggggttg ccggcgcaata 300
tcctttctccc ttaccttcgc tactgtagcg gcggctgagg ccaatgccaa tgagcgaccg 360
caaccggatc ttgtgcgcga gaacgtgggt ctgtaccagt accaagcgtg ccccttctgc 420
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<210> 42759
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-F11

<400> 42759

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tggctgacgc tgaggatata cagcccctcg tctgcgacaa cggaactggc atggtcaagg 180
ctgggttcgc cggcgacgac gccccgaggg ccgtcttccc cagcatcggt gggcgcccg 240
gccacaccgg tgtgatgggt gggatggggc agaaggatgc ctacgttggc ga 292

<210> 42760
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-H10

<400> 42760

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ttcttaggaa gaccctatgc ggtgggatga gacaggttgg agttctttgt gcccctgctt 180
atggtgctga tcatgacacc gttcgaaagc ttgtcgatga tcacacgaat gctaaagcct 240
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ggcggt 306

<210> 42761
 <211> 390
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-001-Q1-K1-H12

<400> 42761

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tcgccggcgg agcgggcgtt cgctgcgag ggccggcgcc ggctcgtctg tcttctagca 180
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acgacgtgat catgctgagg cggacgagga gcggggcgcc gttcccgccg ncgatctccg 300
tgatcgcaa gggcgggcgg ccgtggctct gcctgcgggc gcaccgcgag ggtggacgcc 360
tcgtgctgcg ggagatgcgc ctgccgtcgc 390
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<210> 42762
 <211> 234
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-H4

<400> 42762

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attctgtgtg gccgcgcgac ggatgtgcgc gtgacgccac ggcacggaca cggctggtgc 180
gggttccggg cggtcacggg aaggatgatg ctggactcct ctgagtctgc ctct 234
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<210> 42763
 <211> 233
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-001-Q1-K1-H7

<400> 42763

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<210> 42764
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-001-Q1-K1-H8
 <400> 42764

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 aagatcaact ttgcagtgtt cccatctctc caaggtggcc ctcacaacca ccagattgct 180
 gcacttgctg ttgctctaca gcaaactatg tcgcctggct tcaaggccta tgcaaagcaa 240
 gtgaaggcca atgctgttgc aattggaaac tatctcatga gcaagggtc caagatgggtg 300
 actgatggaa ctgagaacca ccttgttctc tgggatctcc gtccccttgg cttgactgga 360
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 cgtgacagca atgcattgt 439

<210> 42765
 <211> 333
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-002-Q1-K1-A12
 <400> 42765

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 ttcgataagg tcaccgattt ctcacgcagt acaaatttta tcataatcgc catcctaaca 240
 ttaactttta atggagcatg tcattttcat cacattgtgc tcacaatgct tgtcaccaat 300
 ttgtgtcttc cactaagatt atttttattc att 333

<210> 42766
 <211> 93
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-002-Q1-K1-B9

 <400> 42766

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<210> 42767
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-002-Q1-K1-C10

 <400> 42767

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 aaacatcaat atcatcagga acactcatca agtggacaaa gggcttttcc atcaatggca 180
 cggttggtga agatgttggt tctgagttga gcagggccat ggagaggcag gggctagata 240
 tgaaagttac ggcattagtc aatgatacag tcggcacatt ggctggtggg agatatatgg 300
 ataccgatgt agttgcagct gtaatattgg gactggtac aaatgcagca tatgtggagc 360
 atgcaaatgc aattcctaaa tggactgggt tactgcctaa atctggaaac atggtaatta 420
 atacggagtg ggggagcttt caaat 445

<210> 42768
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-002-Q1-K1-C9

 <400> 42768

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agcacaattg caactgggtct tgctattgat gcttatggtc ccatcagtga caatgctggg 180
 ggtattgctg agatggctgg aatgagtcac agaatccgtg agagaactga tgctcttgat 240
 gctgctggca acaccactgc cgctattgga aagggatttg ccattgggttc agctgctctt 300
 gtgtctctgg cgcttttt 318

<210> 42769
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-002-Q1-K1-F10

<400> 42769

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 atatcatccc aaaaacagaa aagtcaagct caatgtgact gtgaacgaat tgggactttc 180
 actacatgct ttccgtcagt tgcgtcaagt tgtagaaag aggtataatt ctctaaaga 240
 tgatctcaca atcatcagt aactgtttta acaccgggaa tacaacataa aatactcgtt 300
 taagacactc tctactctaa tataataccc aatgaaagct gacaaacttg atcaacattc 360
 cattaattct tatgataaat gaagacttaa cgctaacca caatttatgg aactattt 418

<210> 42770
 <211> 187
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-002-Q1-K1-G11

<400> 42770

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 agaactgctt ttgttcatga tattaatgta gatgatgaat atttggtgca aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa cattaaaaac aaaataaaaa aaaataaatc 180
 aagacac 187

<210> 42771
 <211> 328

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-002-Q1-K1-G9

 <400> 42771

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 aaacctactg aggattacaa tgacattggc ggacttgaga aacagattca agagcttgtg 180
 gaagcaatag tgttaccaat gacacacaag gaccgatttc aaaaattggg catttgtccc 240
 cccaaagggg ttcttttgta tggaccccct tggaccggga aaacgctcat tgctcctgca 300
 tgcccttcac aaactaatgc aacatttc 328

<210> 42772
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-002-Q1-K1-H10

 <400> 42772

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 aaagtgcgtc acgggtctggg acggcgccgt ccgcaagacc tgcattgtca tctcctacac 180
 ctccaacacc ttccccaccg actatgttcc gacagtgttt gataacttca ctgccaacgt 240
 tgtcgttgat ggtaacactg tcaacctcgg cctctgggac actgcaggtc acgaggatta 300
 caacagactg agaccactga tctatcgtgg agctgactgt tttcttctgg ctttctcact 360
 gatc 364

<210> 42773
 <211> 308
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-002-Q1-K1-H11

 <400> 42773

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attatctaag tcgttttgct gtcgatgggtg aggataaaca taaactgtct cacgcacaac 120
acattgctac cgatgacacc cacatacgtc tgtcttcaag gtctcatcat acttaacacc 180
aactctctca tttgaatatt ccatatcaac aacggacaca ttatcaaact actacctcca 240
cccattatac ccatacccat tactgctctc caccctttta ttgttccacc cttcctacta 300
gccatact 308

<210> 42774
<211> 201
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-002-Q1-K1-H9

<400> 42774

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attaattggg gctgggtcaag taacaaaaga tggagctctt ggcaactgcaa atgcacctat 180
tcacatgggc acagcagaaa c 201

<210> 42775
<211> 507
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-A11

<400> 42775

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cgcctgggag cagagcacgg cgttccccga gttcaagacc gaggacatgg ccaacatcat 180
gaaggacttc gacgagccag ggcacctcgc gccgacaggc ctgttcctcg gacctaccaa 240
gtacatgggc atccaaggcg agcctgggtgc cgatcatcgt ggcaagaagg gatcaggagg 300
catcaccgtg aagaagacag ggcaggcact cgtcgttggc atctacgacg agccgatgac 360
gcctgggagc tgcaacatgg tgggtgaaaag gctgggagac tacctgcttg aacagggcat 420
gtaactacta cgtaccagct ggaatgcatg tcgacgacga tggtttcgag tttcgacttc 480

caataatagt aacaacaaag caaaggc

507

<210> 42776
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-A5

<400> 42776

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ccaagattgc aatacagaga gcgtatgaga aatgcttcca gaatctccac tacatggagc 180
gatacgagga tcacacaatc gctcatgcta tccaggccaa atatgagaaa acaaagatat 240
atctctggcc tgggccaatg aggagtggaa tgtctgctgc tggtaggact gttgagactg 300
tgctgtactt ggctggtttc agcaatgtca agacaaagat tatcggatca aggaaccac 360
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aacagaaatt tgggcgtact 440

<210> 42777
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-A7

<400> 42777

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gggtcatgcg ggccccgaa ggtgccgccc ggtcccaaca tcaccaccaa ctacaacggc 180
aagtggctca ccgccagggc cacctggtac ggtcagccca acggtgccgg cgtcctgac 240
aacggcgggtg cgtgcgggat caagaacgtg aacctgccac cctacagcgg catgacggcg 300
tgtggcaacg tccccatttt caaggacggc aagggttgcg gctcatgcta tga 353

<210> 42778
<211> 255

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-003-Q1-K1-A9

 <400> 42778

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 gatgctatgt ctgatgctgt ccgtccagca tgcattattg aaacaaggat aactgcttca 180
 ggtttacgtc tgattgacat gtggtcagta ctgattgttg gctgaaagaa ccacatgctt 240
 ggtacattac gatat 255

<210> 42779
 <211> 505
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-003-Q1-K1-B11

 <400> 42779

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 ctgccagtcg ggcaagccaa ggccgccact cgtagggccc tcttctctgc gcttgcctctg 180
 ctggagcgcg ccgccgaata gcacaatgcc agcggcagcc tctcatccga gccccacagg 240
 gccacttgtc gctcgcccgc ccgcgtcgtc gtctccggcg gccggccggc cggcctccca 300
 aaccctagcg aggcgagcga gagagaaact agacgccatg ttcgggtaca ggaaggcgga 360
 cccggacctc gaggccggcg ggtcctcgtc gctgtaccgc gggatgacgg agagccccga 420
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<210> 42780
 <211> 217
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-003-Q1-K1-B2

 <400> 42780

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 aattctacct tgacattgag cctaagtggg gccatttgat ggacctgcac ctggctgctg 180
 aatctgtgct agaaggctct gctctagttt tatacat 217

<210> 42781
 <211> 198
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-B7

<400> 42781

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 ttcatgtatg ctcaagggtc attatcttgt tcatgtatta agtatgttat gaataactca 180
 atatttatta ttttgttc 198

<210> 42782
 <211> 493
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-B9

<400> 42782

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 atgcagcgga acgtctaccg cctcgtcgac aacgtcctca acatcttcgt cgtcgtcaac 360
 cagccggagc acgcgcacaa gcacgggcac tagccgcgtg cgcgctggcc ggcttgcggg 420
 ttgtaagagc cgcgatggtg ttgtatcgat ctcttttctg cacttgaata tatatatgtg 480
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<210> 42783
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-003-Q1-K1-C11

<400> 42783

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aagctggagc gcatcgacga cgccgtcagc cggatcctcc gggtaagtt cgccatgggc 180
ctcttcgagg acccgctccc ggaccgcgc ctcaccaagg agtcgggcgc gcatgagcac 240
cgggcgctgg cgcgggaggc cgtccgcaag tcgctcgtgc tgctcaagaa cagcaagaag 300
gggcaggcga agccgatgct gccgctgcc aagacggcca agaagatcct cgtcgccggc 360
agccacgctc acgacctgtg cagccagtgc ggcggctgga ccatcaagtg gcaggnggag 420
aggggcaaca acctnaccgg cgtggcacca cgatcctgga 460

<210> 42784
<211> 125
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-D5

<400> 42784

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acttatatct caaactactt tcaggagggt attttcttaa gctacacttc tctatcctaa 120
ttctt 125

<210> 42785
<211> 69
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-D8

<400> 42785

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atcatagca 69

<210> 42786
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-E9

<400> 42786

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tacaggaaca tttgagtgga tcatggactg attggtaggc ctcttgaaag tccgggtggt 120
gaggggcatc aaccttgctt accgcgactc aagaggcagc gatccgtatg tcgtcctacg 180
acttggcaag aagaaactta agactagcgt gaagaagaga tctgtgaacc ccatctggca 240
cgaggagcta actctgaccg tcacagatcc cagcctagct ctgaagctgg aggtgttcga 300
catggacacg ttcagcaagg acgacccgat gggtgacgct gagatcgacg tggcgccgct 360
tgtggaggcg gcgaacgcga gcccgagggc gagcc 395

<210> 42787
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-F2

<400> 42787

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gcaaacagta aaatggaaaag caccactgtt ctgttcatat tgtgacgaac tggcagcctg 120
gcatgcttga catcaaacac cactgcgact ggcaccaaag accttaaacc aagcacaacg 180
ccgttgaact ttaacagcct atcaaagcaa gctccaacat caggagatgt ttaagtatcc 240
taccctgtc cg 252

<210> 42788
<211> 153
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-003-Q1-K1-H2

<400> 42788

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gggatgctat ggacctgggg ggggttctta ctaagttgag gtatattgca tgagatagca 120
tgcaccggtt accatatata ctatttatac ttc 153

<210> 42789

<211> 276

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-003-Q1-K1-H7

<400> 42789

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tggctccgcc gcgccaccgc ttggtgcaaa acgttcggcc ggctgcacca cgtgtgcctg 120
caggacngct ccatcacgct tcccgcctac gccgaccgc gcaagatgca tgcgcacctc 180
atcagccccg gacgcgcgc tccatcttcg tctacttcag gggcctcttc tacgacatgg 240
gcaacgaccc cgagggcggc tactacgcca ggggcg 276

<210> 42790

<211> 80

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-A12

<400> 42790

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tcttctacat aatcacaaca 80

<210> 42791

<211> 192

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-A9

<400> 42791

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 ggatgatctg caccgagtgc tagtccttga cagacgggat agagatgctt catgatgcat 180
 attacgcgga cc 192

<210> 42792
 <211> 529
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-B11

<400> 42792

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 tcttgccaag ttacgagcag cgagcagaga tcaaagcagg catcggcaat ggggaacatc 120
 gggcagtcct tccaggccgg caaggctgag gcccagggcg agtaccaggc ggagcacgcg 180
 gcgcagtgcg tcaaggacac cgtcgcagcc gcggccgaca gtgcgcagct gcagcagcac 240
 cgccccaccg gcaccgttga gcaggtggcg cacacggggc agggcggtggc ggcaggcgctc 300
 aaggacacgg tggcggggcg ggcgggttggc gtcacgaaca cgggtggcggg cgtggcagcg 360
 ggcgtcacga acacggtcac gggcgccgtg gcgggctgca cgaacacggt gaccggcgcg 420
 gcggctggtg tcaaggacac cgtgaccggc ggccactgat cgacgacca agaatgcttc 480
 atgcatggcc aagtgttgag ggtttgaggc caaagatggc ttgaatttc 529

<210> 42793
 <211> 428
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-004-Q1-K1-C1

<400> 42793

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 catggttttc gagctttggt tgtaatggag gatcattcac tcttgtaaat tcaacaaggt 180

gaggttggtt ggagcagaga cgatgggctg gcttcaattg ttgatgtaac aacatcagaa 240
 ttgcctgttg agaaggatgg tgtatcagtt gttggtgtgg aacacaatct ctttgagtgg 300
 cttaagggac acatgctgaa actcanagga actctaattg ttgctaattg tgatgaagtt 360
 gctgcaatcc aagcattgag actaaagagc tctgagaaaa atangatgac aagagaccat 420
 tatggatt 428

<210> 42794
 <211> 497
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-004-Q1-K1-C10

<400> 42794

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 cctatcaaac gcatgccaac gcgaaggctc caggggagga gcaccaacca tgggtgcacgt 120
 caacttctac cgcaactatg gtaagacgtt caaaaaacca aggcgtcctt atgagaagga 180
 gcgtcttgat gctgaactga agctggtctg gtgagtatgg gctgaggtgc aagcgtgagc 240
 tttgcagggt ccagtatgca ctgagcagga tccgtaattg tgcaaggcac ttgctcacc 300
 ttgaccagaa gaacctcgt cgtatccttc acggtgagge acttcttctc cggatgaacc 360
 gctatgcgct gcttgctgac ggtcagaaca agcttgatta tgttcttgcc ctcaccggtt 420
 aaaactntct cgcaaggcgg cttcaaacac ttgtattcaa tgctggcatg gccaaagtcca 480
 ttcaacatgc tcgtgtc 497

<210> 42795
 <211> 503
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-C11

<400> 42795

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 gaagataggc cgggacaaag taccaagcag tgggagtaaa atgccaaagga ctgtaattgc 120
 cttggatggt gggctctatg agcattacaa gaagttcagc agctgcgtcg aagcaactct 180

tacagacttg ctcggcgaag aggcctcttc ctccgtggtt gccaaagtgg ccaacgatgg 240
 ctctggcatt ggagctgctc tccttgcatc ctcacactcc cagtatggcg agagtgacta 300
 gtcttgaaaa ctggtgtgga tcgaacttcg agtgtagctc tcatttttat ctttttttcc 360
 cttcaaaaca tccctaatat tccggctctc ctcggagaat ttttcggctt cttttcttgg 420
 ctattctgtg gatgcactta aggcctctgca gcgggatata gctagtatag agccaatcag 480
 tttcgagggtt atctaattggc ata 503

<210> 42796
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-C8

<400> 42796
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 accgttaact gcaatgatct caaccgccac gtgctcggtt tactcgagca gagcctcacc 120
 aacttcacca agatcctcca catcgacgcc agcttcatca acataatcaa accgctttca 180
 tcgtcactta cagcgcgaac tgtcacacca tgatcaccta catatgctca gccagcttct 240
 tctaactaac atagctgcat ctataataaa ttgaagcctc taataattag ccatcgttct 300
 ctatagttcc tttctttctt cgtttttagta tatgcacctt tt 342

<210> 42797
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-D11

<400> 42797
 cctgaattcc cgggtcgagc cactcgtccg ctcaatcgct atacttggag ctgagatgga 60
 tgtgagggtc tcacctgagt tagtcaagcg attggttcaa gccctttggg tgaactcacg 120
 gctaggtcac tttgtcaaga tcttccttgc tgtggcacat ggatggagcg tgatatacag 180
 cctatatgat gcagctgccg tgatgagcgc tgaggatgcc tttgccgaca tgctcgactg 240
 ggtcgaaccc gaacctatag tgaactctgc accttgtaat aataatgcgt attccattgt 300

cctgcaatcg gatctagctg ctgcagggct gccatccaga gttgaacaca tcatctagac 360
atcattatgt agctcgtacc cagattaaga ccctatatta taca 404

<210> 42798
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-D4

<400> 42798

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gatgagagcc ttgttcctcc tggtcctctt gggcatgggtg catgggtgaga aggaagagtc 120
aaagggcatc gatgcgaaag cgttcgggtcc tggtaggtcc ttcgacatca ccaagctgtg 180
cgctccggc aatggcaatg acagacagca ctaatgctgt gcaagatgct tgggcattgg 240
catgcggtacg tactgcgaaa cagacaatgc tcatacccaa gggcgaatta cttgtcggac 300
aa 302

<210> 42799
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-D8

<400> 42799

ttgagagctc ttatttatta gctttgattg caattaacca atatgaccat agccctgtta 60
aggtttgctg tactaaaaaa taaaacaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaagg gcagacgtta taaaggatcc aaccttacct actcgacaat gcaacatcat 180
agctttccta tagtgttacc taaattcaat tcacattcac gatgttttac 230

<210> 42800
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-E10

<400> 42800

ccggaattcc cgggtcgagc cactcgccg ggctaacgta caatctggtg agctggactt 60
agagctagaa tgggttccga tccctctatag tagggttact acgctggtgc tgctggctaa 120
caaactatcc tgaagatgca tcaaaatttt caagctgtcc acttcgatga tcttggacat 180
ttatgctgga tggcttgaat ttgttaaaaa aattgtcatt gataaatatc ctggtgtaac 240
tgtcagctat aatcacagcc ttctattttg cctcactttg gttgacatgc cttgtaatta 300
ctcgccgtct cttgactgat gttgtattgt cccatcgaaa ggacacgtgt atcataagac 360
atgggcaatt atagctaaaa gacagctcag cgttcagacc tactcagcat gatgctctga 420
gtgcatatac gctacaagcc taca 444

<210> 42801
<211> 54
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-004-Q1-K1-E12
<400> 42801

tctaccttcc taattcccgg tcgaccact ctccggactc ccactaccta caca 54

<210> 42802
<211> 522
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-004-Q1-K1-F10
<400> 42802

cctgaattcc cgggtcgacc cactcgccg ggaatcttga cgggtctgtc tacagtgtgc 60
ttattcatgg gcattgtagg gcaggaaaga gtgggaatgc tctcagcgtc cataggcaaa 120
tgctgcagcg tggttttgct ccaaattcaa caagcacgat ttccttgatt aggggtctat 180
ttgaaaatgg gatggttgta gaagcagatc aggtgattca tcagttgttg aactgttggt 240
cccttgctga tgcagaagca tcaaagctc ttattgacct caacttatat gaaggtaatg 300
tggaactcagt cttagacgtt ctgcatggca tggcaaagga tggactgctt ccaagtccaa 360
gatgaggggtg attttcaaca ttcaagaacc accctctctg tggaatactg gagacctgat 420
tgtcatgttt ggtacatatt gtctcatgag tcataacacg agcatctgaa tcagtgttat 480

gtggttaagaa cggctctgccc taaatcatga tgtgtccat at 522

<210> 42803
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-F12

<400> 42803

taccttccta attccccggt cgaccactc ttctgtcac acctctctt cctctactc 60
ctttctattc aactcaccct accattccta ttaggttgct tttaaaacac atcataccac 120
tcatataact aatctaacat acaattccat accaatatc actcccacta tcactctcaa 180
accatactt tccaaatatt ctatcacaaa tata 214

<210> 42804
<211> 467
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-004-Q1-K1-G11

<400> 42804

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ggagatcagg cgacgtacgc tcgtggcggg ctgcttctga acgctgtcag gtgaaccgac 120
ccgtgctccc atgggcgcgc cgcgcgcaat ggcccacga cggcgcccc taccgtcgcc 180
gctgctcgtc tggctggccg gctgttctc tgcggtggcg cccggtgtct ccaagaccga 240
caagtctcac gctgctgcgc tcaatgtgat gttcaatagc gtgaacaagc catcgcaatt 300
gtccggttgg aaatccagcg gcggtgatcc ctgcgatgac gatgacgagt ggaaagggat 360
agagtgcagc ggctcatctg tcacataaat taactngtca gggcttgaac tacagggctc 420
gctaagacat cagctatcaa gcttgaaatc agtgacaaa tttgatc 467

<210> 42805
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-G2

<400> 42805

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tgaagcaaga gcttgctgct gtcttcaaga aaatcggcgg caagctaaca tgtactattg 120
gcttctacga actgtatcgg ataactcagc tctacccaaa gggtgatata ttgctcagc 180
ttcagaatgc tagtgaagca tttagaacct atatcaggga tgggctagct cagggtggaga 240
agaatgcagc agctggaaga acgccttcta gtcttcact gtccacgcca cccccaatag 300
cagcaatacc ttctccaaaa ttggcaccgt cccagttca cacaaaatca attggttagca 360
aaacagatta taacgaagat aatgccagtg gtgagacaca acctttcata ggtcaagggtg 420
acgcccctga ccaacaaact gatagatac 449

<210> 42806

<211> 217

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-G5

<400> 42806

actcggctcct taattcccggt gtcgaccac gcgtacgcc acgcttccgg attggtctaa 60
aaataaatat aatacttata aaaaaaaaaa taaagaaaag ttttaaaaaa aaaaaaagcc 120
aaccacatct aaaaaaatcc atacttactt acactttcat acaacttcat atctcttcta 180
tattttcacc tatattcaat ttactatctc ttctttt 217

<210> 42807

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-G6

<400> 42807

tgaaggctgc cggcatcgcg gaggaggctg tgcggcgggt ggtggacgcc tccgagtgc 60
ggctcatcct ctacggcggt ctggccactg agctcgagtc caacagctcc aacctcaact 120
accggttctg gagcactaag tgccttctct cctaccctta cctaatectc aaggtccaca 180

tgtactatct tgaagctggc gcacacatta taatcacagc atcttatcat gccactattc 240
aagggtttga atcaaaggggt ttttcaaaag aacatagtta aaacttacta acaaatagtg 300
tctatattgc actggaagct cttgagatgt tcttga 336

<210> 42808
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-G8

<400> 42808

actcaatccc caattcccgt gtcgaccac tcatcccaa aaaaaaaaaac aaaaaaaca 60
aaaacaaaaa aaaaaaaaaa aaaaaaaaaa aaaacgcact ttataaaaaa tccaacctta 120
cctaccctta cctcctactc caaatctctt ctataacata acctaaatcc aattcactcc 180
ccaaccta atacaatctt cactatcaaa accctactaa taccacaacta aatcaccttg 240
accacatca cccctttttc caatttacct attaacaaaa ataccctcac aaatcaacct 300
tatcatcaaa ttctcatact catcacttaa ttatactcac c 341

<210> 42809
<211> 87
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-H12

<400> 42809

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cgccccattt ttttattcac accactt 87

<210> 42810
<211> 486
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-004-Q1-K1-H2

<400> 42810

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tctctcgcct ggatatagta gattcattac acattgntgg gtatgatcca tatgaagcct 120
gagtgatcag gatcttggtta tttcatttgt gttcgggaga ggggttggtc cacagccata 180
cggaaacgaa aggttgatgt acagggagca gagaggacta aagtcggtag aagtgagctt 240
gatctaggac agtgctctcc aattcgttcc attgaacaca agtagcagta caaatagaac 300
tcacctaag atccttggag gcttcacttg tatatactca gctgggtgga taggtggtgg 360
gtgtatggtg tgattttggc atccaattgg aatggcaaag gtaatagtgt tattgtacta 420
agaattcttt cccttttttt tctttctcgg ggcctatatt ctcatgttgc aaatattttt 480
gagttg 486

<210> 42811
<211> 533
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-004-Q1-K1-H9

<400> 42811

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cattggcctt ggcttcaaga ctcccaggga agcaattgaa gggacctaca ttgacaagaa 180
atgcccattc actggaactg tttctatcag aggcagaatt attgctggga catgccacag 240
tgctaagatg aacagaacta tcattgttcg catgaactac ctgcactttg taaagaaata 300
ccagaggtat gagaagaggc actccaacat tcctgctcac atctcccat gcttccgtgt 360
gaaggaaggt gaccatgtca tcattggcca gtgcaggccc ctgtcaaaaa ctgtgaggtt 420
caatgtcgtt aaagtcattc cagctggatc cgcagctgct ggaaagaagg ccttcacagc 480
agcctgagtt tatagactat gttccatgag tagtctatag aatgatgtct ttt 533

<210> 42812
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-A3

<400> 42812

gtctgaggat ggaactcaag agaaaggaac tgagggatga tgtgacccgt caacaggagt 120
 tggctgctta cttcacaaac tgcaagcttc agagagttca tatgaggctt gtgctcgcta 180
 gtgccatggc tctttgcttc aagcagaaaa actatgcaac tgccggcacac tttgctagga 240
 tgcttcttga gaacagccct caggaggccc aagcaaagaa ggcccgcacag gtgctgcaag 300
 cttgccatga caaggacgat tcccaccaac tgaactatga cttcagaaat ccattcgttg 360
 tttgtggcgc tacgtatgtt cctatctatc gtggccaaaa ggatgtttcg tgcccatact 420
 gtggatcccg 430

<210> 42816
 <211> 214
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-C10

<400> 42816
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 ctcacgtttt tggccacacc cctgatagac cgttgaggcc ctttcacgtt cgagtggagg 120
 ttcttaataa tgcactctcg ttccaaactg aaacaacact aaaccctatc tggatctata 180
 cttttgatac ataaagtatt ctgcacctat acca 214

<210> 42817
 <211> 225
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-C5

<400> 42817
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 ttcgatttac caccgtgcc aaccgagaga gggatgggtga tgatcaagag gatcctcatc 120
 gccgcgctcc tcgtagacgg cgtcttgccc accgcattgc tggccttcac cgaggccttc 180
 gccgtcggat ccccatgcgg cttcgagtcg tctgcgttcg gctaa 225

<210> 42818
 <211> 377

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-005-Q1-K1-C6

 <400> 42818

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 gatggatgcc aaaccaaggg acgaggaagc tatacgatta aaggctgctg gtggtagagc 120
 taatggacat ggaacaagga agacaaggac acggtaccgg cctagggctg ttccagctcc 180
 agaggcaaac gccgaactgc aagcaaatat tgataaaaga aggttaataa ctcatgcaaa 240
 tgcaagagc aagagcgaaa agttcccttc gccgtatcag gattgcgcac ttggatttac 300
 cttgggctgc ttcaaccaca ttgaatcatc atttgaactc ctaaaccctt cttactttaa 360
 cactttatctt acttacg 377

<210> 42819
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-005-Q1-K1-D1

 <400> 42819

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 ccgcgcgcgc tccatcccgt aacgcgacac catgagggag tgcatttcga tccacatcgg 120
 ccaggccggt atccaggctg gaaacgcgtg ctgggagctg tactgccttg agcatggcat 180
 tcaggctgac ggtcagatgc ccggtgacaa gaccattggg ggaggtgatg atgctttcaa 240
 caccttcttc agtgagactg gtgctgggaa gcacgtgcc cgtgctgttt ttgttgacct 300
 tgaaccact gtcacgatg aggtgagaac tggcacctac cgncagctct tccaccctga 360
 gcagctcatc agtgggaagg aagatgcagc caacaacttt gcccggtggtc actacaccat 420
 tggc 424

<210> 42820
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-D12

<400> 42820

accggtcctg aattcccggg tcgaccact cgtctctctt actcgtgggc gtactcgtgt 60
catcagcgac ttccgccctt tttttttttt tttttttttg tgtttttttt tttttattta 120
ttatttatta taaattatta aaacataatt aatattttta aatatttctt ataaatttat 180
tttataataa caaaaaaata aaaacgatat tcgctataaa aaaaaaaaaa aacgtaatca 240
cgggtctacaa tatacaaaaa tacgtactca aacatgaaaa ataattattat atatataggt 300
taacctacat ccaactcact gttcatcttt ataaaaactc ctcaatataa aaaaacttaa 360
aataacacaa cttaattt 378

<210> 42821

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-E3

<400> 42821

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aaagttctac aattctgcc aatcatctct ctcgggccct tccgtagctc taggaatgtc 120
gaagatggct gcgcagactg ttggtaactc agtatccgag tttctgtcgg gcttcagcga 180
tggaagaca gactcggcag cgagagtttc attcaagtac ggggtgcacga ggggagtctt 240
tggcgcgccg ttcttctttg tgaatggctt cctccagcct gggggcggat cgcctatcga 300
ctacagcacg tggatcggca tcctagacct ccttggttcc cagaacggtg aacggatcga 360
gatgtttact tcgatgtaag tg 382

<210> 42822

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-E8

<400> 42822

agactaaaca tatattgatt agttaatcta tgaatgtggc ttgtatttgt gtctatattt 60

attatcattc attcgaacga ttgacagaaa aagaaaaaga gtgctaaaaa gaacgagtat 120
tactgacat ttcgtggcat tgttctccgt caaggagggtg ctactctacg ctaccaaag 180
gccaaagaga gagctcacag aaatttcttg tccttttctg caagcacaaa atttccgaaa 240
tctctgccga ctaataataa ttctaattac gcgaccgatg atcgatcaaa tcactagacc 300
aaattctgcg ttccatcgag gacgagtatt gggctgcgaa cagagtac 348

<210> 42823
<211> 491
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-005-Q1-K1-F10

<400> 42823

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gagagccttg ttctctctgg tcctcttctg catcgtgcat ggtgagaagg aagagtcaaa 120
gggcatcgat gcgaaagcgt cccggcctgg tgggtccttc gacatcacca agttgggcgc 180
ctccggcaat ggcaagacag acagcacgaa ggctgtgcag gaggcattggg catcggcgtg 240
cggcggcact gggaagcaga caatcctcat acccaagggc gacttcttg tcggacaact 300
caacttcaca ggcccttgca agggcgacgt gaccatccag gtggatggca atctgctggc 360
gaccacggac ctaagccagt acaaggacca tggtattgg atcgagattc tacgcgtgga 420
taacctggtc atcaccggca agggaaacct tgacgggcag ggcccatccg tgtggagcaa 480
gaactcctgc a 491

<210> 42824
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-A2

<400> 42824

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gagcattggg tgtctgttct ggctgctcgc ccgaatggtc ctccagatgc gcggtacaat 120
tcttcagga cacaagtggg acatcatggg agatcttttc ttctacagag acccagagga 180

agcgaagcag ctggaggaag aagaggctct ggttgacact gactatggcg cggttgcaga 240
 atacactgca ccaggcgctg acaactgggg cggatgaatgg ggtgctggcg aagctgcagc 300
 tccagctgct agcattccag ctgctggcg 329

<210> 42825
 <211> 323
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-A8

<400> 42825

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 cacaggaaca aactgctaac gaggacggag gccagaccac ctttagctac gaccgcttgg 120
 tatcaaagtc tactgacct gtcagtggga tagaccacaa gcgcagagag acatatttgg 180
 tggacaatga gtccgagacc gtgtttggca tgaccaaaga ggagttctac gagcagccaa 240
 ggtggaagca agagttgcag aagaagaaag ctgatctttt ctgaactcac acacacggct 300
 agctacgaat aaaagccctc ccg 323

<210> 42826
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-B2

<400> 42826

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 ccgtggtgag cacgctctca gacgttacga atctggggaa gagcgttgca ttgcttgtaa 120
 actatgcgaa gctatatgcc cagctcaggc aattacaatt gaggctgaag aacgtgaaga 180
 cggcagtcgc cgaaccacaa ggtatgatat tgacatgacc aaatgcattt actgtgggtt 240
 ctgccaagag gcttgcccag tcgatgctat tgttgagggg cctaactttg agtttgctac 300
 tgagacacac gaggaactac tgtacgacaa ggagaaattg ctcgagaatg gtgaccgctg 360
 ggaaactg 368

<210> 42827

<211> 178
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-006-Q1-K1-B3

 <400> 42827

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 gttcttcggg gttcgggtttc gtgggtgagc ggatcgagat ggcgggcgteg gatgttgagt 120
 accgctgctt cggcgggcggc ctgcctggg ccacggacca ccacttcctt cacaacgc 178

<210> 42828
 <211> 75
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-006-Q1-K1-D1

 <400> 42828

 atttggatag tcaatagtgg tggcggttatt tgtacatgaa ggaataaaga cattagaaca 60
 aagggtttttt taaaa 75

<210> 42829
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-006-Q1-K1-D12

 <400> 42829

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 tgctaccaga catctttcct aaaaaaatt tcaataatac ccatttcaaa ttattgtagc 120
 tgataccatt catcacctgt gactggcagc ataaatgcta ccaccctcat gactcgtacc 180
 gcgcacgcaa caatcaaaaa cacaaactat ctatgctaca tcgtgaagac aactcttgac 240
 caccttctct tatataaaga cagaaaggct tgcagcttat actatgaagt cagatgcacg 300
 gaaaaacctg actgctcagg caatccattc acggagtaca taactgacat gaactacgag 360
 cctatcaatc cct 373

<210> 42830

<211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-006-Q1-K1-D2

 <400> 42830

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 gattgtccct tttgctctgt gcctcatgtg ttacacccca ctgtatacag tgttcaagcg 120
 tgaccgagaa aatgctagat tggccagcat caaggagcag gaacttactt gaaaagcttt 180
 ctaacaagga gtactgatgt agtttggatt acatagtcta caacaccggc aacctggagg 240
 ttttgattga agtactttgg ttgatgtcta ggatactcaa gttttatggt tcttcagtcg 300
 gatatcattt atgagtacac atcttgtaca caggcgatag attgtttggt ctcgtcgtat 360
 gtaactgggt cagtatacat tc 382

<210> 42831
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-006-Q1-K1-E12

 <400> 42831

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 cgtcgagcga gcagtcttcc aattccaggc gatgactaat aacatctcct ggaacgccac 120
 gttccttggga cactatatt caggagcgac gaagtgatcc acccgccagc catggagatg 180
 aagaaggtcc tctgcgcgc cctcgtcgtc gccgtctcag tcaccgacgt gctggcctct 240
 gtcgcctccg aggcgccttc cgaagcgccc gccgacgcga gcggtgggtgc ggatggccct 300
 agcgcacgcg gcgacgtcgc cgacgtcgtg cccgacgtcg gggcgctcgt cggctcctta 360
 c 361

<210> 42832
 <211> 317
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-006-Q1-K1-E2

<400> 42832

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acaaggcccc tttcaacagc atgggcgcat gtggcaacgt ccccatcttc aaggatggtc 120

taggttgtgg atcctgcttc gagatcaagt gcgacaagcc agcggagtgc tctggcaagc 180

ccgggtggt gtacattaca gacatgaact acgagcccat tgcggcgtag cacttcgacc 240

tagcaggcac ggcgttcggt gccatggcca agaagggcga ggaggagaag ttgcgcaagg 300

cgggcatcat cgacatg 317

<210> 42833

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-G10

<400> 42833

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cctgatcgag ccgaaccaac ggccgacgcg gcgcacgcca tggtagcagc tggcaatcca 120

ccttcaaaac cgtgggaacg tgcaggaaat tcatctggcc cagtgccttt taagccggcc 180

tctggtggta gcaccagtga tgttggtgaa gcttctggga cagcaaaaca tggagaagct 240

gtatatgctt ctggaaacaa tgttgcttc aatgtgaaca gcacaatttc aatgcctgtg 300

cccccaaggc cttggcagca gcaaggctat gaaaactctt atgggggtta tggctccagt 360

atgtatagc 369

<210> 42834

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-G12

<400> 42834

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gattccagag gtcgtggtgg aaaaaggac tgggtgtggt ggcggaactg gcggtcacgt 120

agctgtgcga gacatcgaac tgtcttgata ctgcgactca tgcttgcttt cattcagcat 180

acaatgccat gttgggtatg ctgcctgagg tggAACGGtg agtgggttaa gcaaggtttt 240
tagagcgtct gatgactttg ccaagaggat tgggacacgc tctagactag cgcataaagt 300
gctgggtgca ctgcatgcta g 321

<210> 42835
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-H11

<400> 42835

ttcccgggtc gacccacgcg tacgatcgat cgtcacagcc aacatcaccc gccgaggtta 60
cgcgacagtc gacaggagga aggaataagc tcagtacagc acagcgaagg gtgagaagcg 120
tactgctctc gtgaccagag cactgcaccg acagacagag ctcgttaatc tctgacgacg 180
accagtggat taatacgcac ggcagctatg gccacttagc aggtcggttg aacgcccgcac 240
ggactgggcg tacatgacgc atccacgttt cgacgtggcg cctcacaggg cctgaagggg 300
gtccaggcat atgtgacggg tgacactctt attatg 336

<210> 42836
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-006-Q1-K1-H12

<400> 42836

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tgctcgccac ggcgatgcta gctacactat tcgcggttgg tttgtgcacc accccgctca 120
ccttcagggt cggttaagga tccaagcctg gccacctgat cctcaccccg aacgttgcca 180
ccatatccga cgtggagatc aaagagcatg gtggcgatga cttctccttt acgctgaagg 240
agggcccgcac cggcacctgg aactcgcaca ccaaggcccc gctcaagtac cctctttgca 300
tccgctttgc tgtcaagtct ggtggctacc gcatcgatga cgacgtcatc cccgccgact 360
tcaagggtcg caccacttta tagacgacac tcagcatcta atcagcatct tgagatgaac 420
tatattttca aagagc 436

<210> 42837
 <211> 288
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-006-Q1-K1-H2

 <400> 42837

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 gcccgttgag gaactgtaac tttatgtgac ggaatcacia aaatttacca ttgtatttgt 120
 tcaagctaca cgtgccacag ttttttatgt tgtgattggt aggtacgggtg aagtttagacc 180
 tctagtgcta ttgggaagaa aaaaattacc attacattta tttaatatat tttccttttt 240
 tccttgtaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa gataaacg 288

<210> 42838
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-006-Q1-K1-H3

 <400> 42838

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 ggtttgtgca ccaccccgct caccttcacg gtcggttaagg gatccaagcc tggccacctg 120
 atcctcacc cgaacgttgc caccatatcc gacgtggaga tcaaagagca tgggtggcgat 180
 gacttctcct ttacgctgaa ggagggcccg accggcacct ggacactcga caccaaggcc 240
 ccgctcaagt accccctttg catccgcttt gctgtcaagt ctggtggcta ccgcatcgtc 300
 gacgacgtca ttcccgtcga tt 322

<210> 42839
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-006-Q1-K1-H7

 <400> 42839

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tgcataacttc gttgccgttc atggagtggt gagtaaatgt aaacttaaaa gctttcgcac 120
 agctcaaact accaagagtt cctccaggca aaaccaccag ctacaccgtc aactgcgacc 180
 tataagtaga tcagcgtctc ttcttgcttg cctttgagct gctcttcgac gggctcgcga 240
 caaggtagat aaacagtcca acaaaagaga caacagacac aagtgacccg tatttcacatca 300
 caagcctctt agcccattca aacttcttct ctggaggtct ctcagcgaga atatccagtg 360
 ngaagatggg agttgagtat gccttctgaa gaactgtctt tgtgggaaca cggtatgtaa 420
 ta 422

<210> 42840
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-B2

<400> 42840
 cgccgatgca ccggaggcgg cgccgatgc tcccgtcct agccccgact ccgcctcatc 60
 ccgagactca tcgtcagagg cgccctccag cagcagctcc tccgactaga cgcaaaaacc 120
 tcttcattct ctggaataac taacagtata tacgttgac cctgatgata tagaaacatg 180
 tacgtgcatc agtgtatgga atgagagtg caaacacatg gaatgtgctt gcctaattat 240
 tgtttatttc tttatttatt atatgtctct ctcggttggt ttttattttt cttaatgcat 300
 gtaatataat ttgttatacc ca 322

<210> 42841
 <211> 448
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-007-Q1-K1-B9

<400> 42841
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 nncatcacat ccttctacca acgagggtc cgtgtgggct tcccaggga acatccccgcg 120
 tnnccctctc aactgagggc gcnccctga taccctaaagg gctaaccgctg tgagaaagat 180

gateccacga tcaatgggtc gagacccctt caacaccccc gcttatgtac cgtnncgcca 240
 tccaggcccg tccctgggtc tctgtatgcc anngtgggtc taccacaag gtnnatcgtg 300
 ctcgacttcg ggaagaatcg gtgtcagcca cacttgtcnc cccatctacg aagggaaata 360
 cgcccttcn ncaacgccat ccccttcgtc tcgaccctgg ctgggccgag accnctcacc 420
 gactacctca tgaaagatcc cctgactg 448

<210> 42842
 <211> 264
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-D5

<400> 42842

cggcacactg caggaacggc aagggaatga tagctagcgc tcttaattga tcagctgac 60
 agatgatctg ccgccacgca cagtcgtct tgtatgggtc ggctgctaca atgcaaccgg 120
 tagatctccc tgettagttt cttgagatcg agggctccag ttcttgcttt gcattctgca 180
 accgttgctc aaatgtccac aatctttgcc ttccgtcaaa ttttaataca tggctggaac 240
 attgaggcaa aaaaaaaaaa aata 264

<210> 42843
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-007-Q1-K1-F11

<400> 42843

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 ccatgcgagc gaacaagcca accgaccccg tccccaaggc aatccgcccgc cgacgtacca 120
 ccaccaccgc aggagcgaga tggagatgaa gaggatcctc ttgcccgtcc tcgtcgtcat 180
 cgccgcctcg gccaccgcag tgctggcctc caccgaggcc gccgccgagg gcgccccaac 240
 tgctccgag tcgtccgccc aggtcccccgc tggcgctggc gctggcgctg ccgctggcgc 300
 cgncgcctcg gggccctccg ccagcagcgg cgcgcccgcc ctgcccgcg cgcccgccgc 360
 gctcctcttc tccctcctcg cctactacct cactaagcg tgtgcgtgcg tacgtacgcg 420

cgcatggacg acgatggatc

440

<210> 42844

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-G1

<400> 42844

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aaagattatt ttcttttagc aaaaggtgac tttttccagt gttttcttga ggaaagccgc 120
caattaatgc ggttaccacc tcgtcaatct acagccgaag cagatctcat gattccattt 180
cagctggctg cactgaagac tatcggtgag gaagacaagt actttaccag agtctcatta 240
aggatgctat catatgggat gaaaagtagc acgtctcaga aagatcttca aaagcctaatt 300
gcttcagagc tttcttcaca aggaaaagct gcatcagaat tgacacttga tgggtgggat 360
agtattgctc tggaatatcc tattgactgg gc 392

<210> 42845

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-G3

<400> 42845

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acacaacagg tcagcaggca tcgctttatt tacaacagaa cgcctaaatt attcacaggc 120
gtgcattcac atatgtgaag gaaaccgttt tgtacatcaa ggtgaggcca caccaaagtt 180
ggcccaagga atgacaaatc aatagcata acaatgtgat ctgatatgcc tgtgaagcaa 240
gtctcatctc aattcttgac aattgcaata ccttcagaag ct 282

<210> 42846

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-G7

<400> 42846

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ccttttaggtg cagcagatta ctttggactc tttaaaaaat ttcacaccct ggcacttgat 120

ggtattccaa agcttgggtc tagtaacaga acagcagctt atcggttcgt cacactgatt 180

gatgttatgt acgagaacaa ggcaaggctg ttatgtacag ccgaggctgg accagtagga 240

ctgttcgaga atatcgtgac tgttgctgaa gcacggaagg tttcaccaag atcttcacgc 300

tcacagaaaa ggcagcacac tgacctatgc gtggacaatg agcttggatt tgccaaggat 360

cgtacgatta gcaggttgac agagatcaac agcagagaat atttggagga cttcgaaatg 420

agattgaggc aacagcagca gctgcccttg caaggtcta 459

<210> 42847

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-007-Q1-K1-H8

<400> 42847

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gtctctggtc gctgccatgt gtgtacactc gattgtaact gacattggct accgaatgaa 120

tatcatgccc ctctagcctg tgtaagagca cctgtggttc ggttaaggga gtaaaactaa 180

acccgttgta gagatgcaaa taaataaata attacagtgt agaatgccac ggacaatcgt 240

ccttgggaatt gttatatttg caaatcatca agcgacagtt ctttcggtga taa 293

<210> 42848

<211> 473

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-008-Q1-K1-A4

<400> 42848

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catgtggctg tcgatccggg cgcgggttgc gatggctgtg gtgttggtgt tcttggtgag 120

cggcgcacatgg tgcggctctc ccaaagtccc cccaggcaag aacatcacgg ccacctatgg 180
 caaggactgg ctggacgcta aagcgacatg gtatggcaag ccgacgggtg cgggtcccga 240
 cgacaacggt ggtggctgcg ggtacaagga cgtgaacaag ccccccttca atagcatggg 300
 cgcacgcggc aacatcccca tcttcaagga tggctctgggt tgtgggtcct gcttcgagat 360
 caagtgcgat aagcctgtgg agtgctccgg caagcccgtg gtgggtgcaca tcacggacat 420
 gaactatgag cctatcgagg cgtaccactt cgattagcag gcacggcggt cgg 473

<210> 42849
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-008-Q1-K1-A5

<400> 42849
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 tgaggagag gacccctcac tagggtttcc tccgacggcg ccgacaaaac cagaccatca 120
 aacaagtgcc agcgccctct cgcagtcgcc gcaatggaga gcaccttcac catgatcaag 180
 cctgacggcg tccagagggg cctcattggt gagatcatca gccgttttga gaagaagggc 240
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 gccgatctcg cctccaagcc cttcttccag ggcctcgtgg actacatcat ctctggccct 360
 gtgggtggca tggctctggga gggcaagagc gtcgtcacia ctggccgcaa gatcattggc 420
 g 421

<210> 42850
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-008-Q1-K1-A6

<400> 42850
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 tccaaagccg agcgggtgctc ttctccacc ggccgaaccc ccgtcgaacc cttcctgtca 120

cacgtacaaa ctcaagggtg aagacgaccc aaaatatattt atgtattttt gaaattttctt 180
 ttgattcaat ttgtgaattg tatatttatt atgttgtaat aagagcatgt tgcgattcga 240
 aattcacgtg tatgcgcgct atggaatttc tggtagatat atgcggttag tagtgcaccg 300
 tgattattct tgttattcga tgcgatgact tttagaatgt tggattagag agaaatatga 360
 cgaaaattta gtagtcacac gttggtgata aaaacactag atatgaaatt ttatagttaa 420
 ttttggtcac atttgacttt tg 442

<210> 42851
 <211> 191
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-B10

<400> 42851

cggacgcgtg ggcgacgcg tgggtttttt tttttttttt tttttttttt tttttttttg 60
 tgggtgtttt tttttttgtg tttttttttt ttttttgtt aaaaacgcga gcgggcgctt 120
 taaaggaacc aagcttacgt acccgggcat gcgaaggtaa aactttttta taggggaaac 180
 aaaaatcaaa t 191

<210> 42852
 <211> 458
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-008-Q1-K1-B3

<400> 42852

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 tgtccaggcc tcgtctcggt tcctcttcgc tccccgtga cgtcagtagc ccacccatcc 180
 tcaccggctg tcggcaccag cccgccgccg acccccgccg ccgtgtcacg actcacgacc 240
 cattgtggtt tcagatcaga cccgaatcgc gagcagcgat ctgtacgtcg tccccgttcg 300
 cagcctagc gcgatggcgc acccgatgta cggctccggg ccaactcagat ccaggaacgc 360
 ggcgaactcg gacgaaatcc agctgcggat cgaccgggtg gcacgggacc tcgacgagga 420

gatcgacggg ctgcaatcan ggtccgcatg ctcaaagg

458

<210> 42853
<211> 472
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-008-Q1-K1-C2

<400> 42853

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cttatgtca ccctggccgt caataacgcc caggaagaag attcacagcg gacgctcccg 120
cgttccctt gcatcccagg ccagccacga ccccggtggc tcccaccctg cccgccagcg 180
ccagctgagt gctacacgtc ggtgtcgggg ctgatgccgt gcgcggactt cctcaccac 240
atcgggctgg caccggcacc acccagagc gcctgtctcg acggtctcag gtcgctcgtc 300
accaacgcgc ccatctgcat gtgccacgtc gtcaatggcg acatcaaaa gctcctaccg 360
gcgcccata taccggtgcg catggtggcg ctccccgct tgtgcgtcgt ccccttccca 420
cgagccacga ttcgccagtg cattaaaggc catgtgccac ctatgaacct tc 472

<210> 42854
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-C5

<400> 42854

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ggtggagaag aaagtcgagg ccgccgcggg cgaacttgcg atgggccaac acagagacca 120
tggcgtgctg ctcagggggg ttgccggggg tcgggaaggg tgtattcgtg aaggccgatg 180
ggttgagcgc ctctgtggtg gcatgattcc tcgacggact tgggtggtcac catggaatcg 240
cgctccgtcg ccgagaggac tccctgcgca accatcctcg aagcgagggt gcgaggcacc 300
tacattctac attggagaag tacctggagt tgcacaaaa aggtcaagaa caggtaccac 360
tggaggaaca tgaaggatgc tacgatgagt tcggagaggt ctaggtcgtc gtctcctagt 420

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426

<210> 42855

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-C7

<400> 42855

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tgttatctag cacgatgcc a tccttatcta acttgaacta ttttttagtat gtaaaatttg 120

cattatagat tttcttattg gtactgaaga agttggtgat tcttttgagg atatttcagg 180

aagccctggg gttgaagctg caaaggattt taatgcttct gcaaatgctg gaacaagata 240

aagtgtagac actcatatta gctggaacaa caagccaaaa attgcttctt gatgtagagg 300

ctattataaa tcttcttcgt tgtctgaaat aatctcagcc cgggacacca attcaaaaac 360

aatgaagaa gtcaagaca 379

<210> 42856

<211> 88

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-D12

<400> 42856

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tcttttctat agcgtaccaa aataaatt 88

<210> 42857

<211> 462

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-008-Q1-K1-D3

<400> 42857

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ggaaacgaga acatttgccg acttgacttt gtattcctag attgcacctt ctccaaatgc 180
 ttctctcaagc taccgagcaa ggactcagca atccgacagg ttatatcttg catatggaag 240
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 gttgaggtgt caaggacttt cggaacaaaa atttacgttg acccgaaatt ggattgtttt 360
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<210> 42858
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-008-Q1-K1-D5

 <400> 42858

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 cttgtctatg atgttactga tgagtcactt ttcaataata taagaaactg gataaggaac 180
 attgagcaac atgcttccga caatgtgaat aaaatttttg taggcaacaa agctgacatg 240
 gatgaaagca aacgcgctgt accgacttca aaagggcagg ctcttgctga cgagtatggc 300
 atcaagtttt ttgaaacgag tgcgaagacc aacctgaatg tggagcaggt ttttttctcc 360
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 atcagtatta acagacctga tggcgggtga 449

<210> 42859
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-008-Q1-K1-E11

 <400> 42859

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gtgcggagtt aaggactgga ccgaggcagt attatcagtt tctggatatg gattgtttgtg 180
ctagtttcga tgcaggtgtc aaacaacaat taggctgaag aggtgagcaa catttaagga 240
gggtctgatg cttgctgata acctatgaaa aggcgttgcg gtagctgact acttggtttg 300
tggtcagata attctggacg tgaattttga tatgttggcc agattagctg ccaaataagg 360
atttcgtatc tcttgattta tgggattcac attaaactga aaaaaaaaaa aaaaggggcg 420
gcgctctaga ggatccaagc t 441

<210> 42860
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-008-Q1-K1-E3

<400> 42860

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gaggactacc taatccactg ggggcagggg aaaaaagggt attaaaaagg ttattttgca 120
ttttgaagcc tgggtcaactt gctaggccac caattgccta aaaaaccac ctaactacct 180
ttctgggcac ttctgggtaa ctacaacccc caccaggggt acaaagaagt tgttaccag 240
caggataagc acgaagaaat agctttcgtt gaagagatcg ctagaacagc gccaattaag 300
tacttgcacc ggtacttagt gcagaagggg gctgtgcctc aggactacga ggacttcaag 360
agaatgctga catccctatg gtttgatttg tatggaagag gtggcaactc tagctgctct 420
tctgcctttg agcatgtgtn ttgtggtgag atcaaagga 459

<210> 42861
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-E8

<400> 42861

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gggccactgc cactgtacct tttttatcat gcaaacaaga gttccgactt ttacataaat 120
acgtacatgt caattattga cttaatgaac agttgtttga ataataagc tagctcaatg 180

aaaactaata gtgtggataa cactagccac actcaa

216

<210> 42862

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-008-Q1-K1-F2

<400> 42862

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tgggcgctaa actcatgtgc atgagatata ttcttttgtg cacaatcggt ttcttagcgg 180

gtgtctgatt ctgtatcacc tttgtgtcgt tgacttggtt tatgtggctc tgttattgcy 240

ggtgcagctc tggtataagg gctattaata aggtgggtgg tggttaaacta tgtcctgcat 300

atagtagaga ctgtgagctg atatgttttc agctaatacat taaggatcgg aaatcttcat 360

acaaattcca tctctactga ttattcactt gctgtagctt ttgtgaccc taaagtgga 420

cagataattg cttatttaac cacgttggct tctaacgtg 459

<210> 42863

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-008-Q1-K1-F3

<400> 42863

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tccacccgcc agccatggag atgaagaagg tcctctgcgc cgccctcgtc gccgccgcct 180

cggccaccgc cgtgctggcc tcggtgcct ccgaggcgcc ctccgaggcg cccgccggcg 240

cggccggtgg tgccgctggc cctagcgcaa gcggcgccgc cgccgccgcg gtgcccgcg 300

ccggggcgct cgtcgctcc ttctcgctt actacctcca ctgagcgacg acgcgcgng 360

cggcaacgtt gggatgcac gtgtttggt catccgatta attaatgtt ttttttattt 420

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425

<210> 42864

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-F5

<400> 42864

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tgtgtccccg cgcgatggg gcgcgttcga ggctggcggc gacgacgggt gggctcgtgcc 120
gccggccagc gacggcgcca ggtacaacca gtgggcatcc aagaaccgct tcctcgtcgg 180
cgacgtcgtc cacttcaagt acagcgagga ctccgtgctg gtgggtgacgg aggccgacta 240
cgacagctgc cgcgcgtcgc acccgtctt cttctccaac aacggagaca cggaggtgac 300
gctggaccgc cggggccccg tctacttcat cagcggcgag accggccact gcgagcgcgg 360
ccagcggatg gtcgtcaggg tcgccggcca gggcgcaccc ccgacggcgc cttccagccc 420
ggcg 424

<210> 42865

<211> 472

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-G3

<400> 42865

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ctactagctc cgtctggatg cctgggggtg gtctactacg tagggtcgtc gaccttgtac 120
gggtggcattg gcatgcatgc tgttgggatg ggatcatggg agttgggagc tgctgtggaa 180
cacccttcca aagaagctga cgtgtggggg caatgccacc cgataccttg aacagcaacg 240
actctttccc aggcgggcgt gtctccacaa atctgtcatc acatacacia cacgtacgag 300
aagtaccctg gaaattgtat atacgacagt agttcgatca gtgtggattt tccgcaatga 360
cggccacgcc ggaaactaca ttatggtaca caataaaacc ccgtgctttt cggcgggatt 420
acattagaaa tcagatagaa atgtatagtt attcgggtacc tttttggaaa ta 472

<210> 42866
 <211> 485
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-G4

<400> 42866

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 aagcagtacg agttcgacct ccaacgggag aaggaggcca aggagaagca ggccaagaag 180
 ctgcaagcca agaaatccaa gatgaagata gatggtgctg aaaagaaacg taaaggtggc 240
 caatttaagg tcggcaagaa aaaggtgaag acgaaacttt cagccttagc aaaagccaaa 300
 gccgcgcaag ccatggaggt cgacaagtga ctgcggagca caagcatcat caccttaagc 360
 gtcgagccag agttggaact ctgaattctg tgcccacatg aatagctccc gtcgggtgca 420
 gctgcagctg cagcttgttg aacctttctt tctaaaaaga atgtcattct tgctttttta 480
 aggggt 485

<210> 42867
 <211> 317
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-008-Q1-K1-G8

<400> 42867

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 gttgccttta agtactgtgg tgcggcattg ttacacatca cagttcagtt tgggtcaaatt 120
 ttttttccac acaggaagta gggattgatt taatcattga tttaatccca cacgcgtgta 180
 tctacggata cagtttgcac aacatgaacc acctttgtat gcgattggtc taaaaataaa 240
 tataatgctg atctattgaa ttagaatgca gaaaaaaaaa aaaagggcgg gctctctaga 300
 tgatccaagc ttactta 317

<210> 42868
 <211> 435

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-008-Q1-K1-H12

 <400> 42868

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 atagacaatg caatgagagc cttgttcctt ttagcgctct tctgtgtcgt gcatgggtgag 120
 aaggcaaagt caaaggacaa cgatgcaaaa gcgtccgggc ccggtgggtc cttcgacatc 180
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 ctcgtcggac cactcaactt cacaggccca tgcaagggcg acgtgaccat ccaggtgaat 360
 ggcaatctgc tggcgaccac ggacctaaagc cagtacaagg atcatggtaa ttggatcgag 420
 attctacgcg tggac 435

<210> 42869
 <211> 215
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-009-Q1-K1-A3

 <400> 42869

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 aaaaaaaaaa aaaaaaaaaa aagaagaaaa aaaaaaaaaa acaaggggct gcctatcttg 120
 gggattccta gcttgacttc cgcacacctg caacttctta gctcttttat gtgggtcacct 180
 aactccaatt gactgtccga tggtttacat cttgc 215

<210> 42870
 <211> 292
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-009-Q1-K1-D2

 <400> 42870

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gtgtgaggtg tggcgggcg tgtgtatgta tggagtctgc cggcgggct gaggaggtgt 180
gctcgtggtg gtggtggtac gtgcttcgac tctccactgt ttgtcgcggc gatcatgtac 240
taccctgctg cgttttctgg ttatcaatga gatgatttat ttgattcttt tc 292

<210> 42871
<211> 474
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-D7

<400> 42871

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tccgcctcgt caccggactc ctcgtcggat ggcgcctcca gcagcagctc ctcggtactag 240
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ttgtcggcat gcaatgcaaa attccgattc ttcggaata atcaagcacc aaaggaatgt 360
gcttgcatca ctactacta gtacctgtt tttatatatg tttctctcc tgacgctctc 420
cgattttaat cttcatgtat gcaacatatg tgatgaatgg aaaaatcgat ttgt 474

<210> 42872
<211> 176
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-D9

<400> 42872

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atatgtgttg tcttctttca cgcataatg agatgcaccc ggcttgctcc ttaaattcgg 120
gtgtgacagc gcagtcagcg caactctagt ttaggagaaa cacaagatg gagggtg 176

<210> 42873
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-E10

<400> 42873

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ccacgcgtga agaagcagcc gcctgcgctc cccccgaatc accgcccgga gctccgcgac 120
ttcggcggcg tcacgcagcc tcagcacggg agcgcttcag cgtcgtcgtc gtcgtcgttg 180
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agcgagatca agggcgacgt ctccgacggc gtcgacctgg aactgaagct gtaaggagcg 300
catataactg gaaccctcac tccctctggt ggatgttcct tctgcaacg gga 353

<210> 42874

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-F2

<400> 42874

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cacaaatcta tatcggtttta aaacatatcc ctttttccaa atgtcgcatt atagcaaaga 180
gccccacaca tatcgctttt caaaacattt gcacac 216

<210> 42875

<211> 465

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-009-Q1-K1-G10

<400> 42875

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ttctgtgcct cctgttagcg acagggccgc agggggccat cagcgccgag gggatggtgt 180
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cgtgcaagta ccaagcctca acgtgtggcg ccgctgtgtg gtatatatta cacacatgca 420
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<210> 42876

<211> 558

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-G7

<400> 42876

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<210> 42877

<211> 478

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-H1

<400> 42877

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aaacttcacg atagcggagg atggatctct tcatgtcctt ccaaaaagcg tctaacagat 240
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<210> 42878

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 42878

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 gctgaagaga acatgcgtgg aatttgcttt gaagtctgtg atgtcgntct tcatgctgat 360
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<210> 42879

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-009-Q1-K1-H4

<400> 42879

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atggaacttc tatggtcctt gattcgattg ccagtaggca tcatctacgt gaatgaaaac 360
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<210> 42880
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-009-Q1-K1-H5
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 aatgccaaag attgtaagaa cagtttggtt tgctgcatcc cagaaacctt caccagtaag 420
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<210> 42881
 <211> 495
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-010-Q1-K1-B9
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gcgcaggcgc gcaagcacgt cgcgaggtcg gtccgcacca ttccgacgca gcagacgcag 420
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<210> 42882
 <211> 338
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-010-Q1-K1-C10
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 gcgcccccg cgcgtggctt caggtggctt gtcagaacct ggggtcccctc gagaaggggtg 240
 gcattgtcgt cggcgtcgat gttaagaagg tgaaagtgcc ctctgcgcac tgtgactcac 300
 ggggtcaagac ggtctgtgca gatgtcatga cgctgatg 338

<210> 42883
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-010-Q1-K1-C12
 <400> 42883

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 agcagatggg cttgagcgat caggacattg ttgccctctc tgggtggccac accttgggaa 120
 ggtgccacaa agagcgggtct ggttttcgagg gggcctggac taaaaccct ttggtctttg 180
 acaactctta cttcaaggaa cttctgagtg gtgataagga gggccttctt cagctcccaa 240
 gtgacaaagc cctgctgagt gaccctgttt tccgacctct tgcgagaaa tatgctgcgg 300
 atgagaaagc tttctttgat gactacaaag aggccacact taagctctcc gaactggggg 360
 ttgctgatgc ttacatagac cctatcctgg agtgatacat tct 403

<210> 42884
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-010-Q1-K1-D12

 <400> 42884

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 gtcactggtc agtcacttac attttgatgt gccagaaata ttcaagtatc taaacaaggt 120
 ggtcgtggtg gatgacgatg taagtgttca acgtgatctg actttcttgt ggaatattga 180
 tatgggagac aaggtaaagt gcgctgtcga actttgaggt ctgaaactgg gtgagatgaa 240
 aaatgtcttg ggtaaaacag catatgatcc aaagtcgtgt gcgtggatga cgggggtgaa 300
 tttgattaat ctggattaat ggaggagca taatgtcaca gagaactatc tgcggctcat 360
 gaaaaagttc gaagtcaagg atgagctgtg cctgctagca gcagcatttt cctctaagct 420
 tgctatcctt gcaacattta atattcccc t 451

<210> 42885
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-010-Q1-K1-D9

 <400> 42885

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 tcattcgttg atccatcttg ctaataacgc tgcgtgccct tcgttctcgt ctcgagcccc 120
 acgacgtcc cttcggttc ggcaaaccac atcaagtcgc gatggagatg aagaaggtcg 180
 cctgcgccgt gctcgtcgac gccgcctacg tcaccgtggt cctcgccgac gaggccccgg 240
 cgcccggtcc caccagcgcc ttctcggctg cgttcccggc cgtcggcgcc gtgctgagcg 300
 cctacgtgct ctcttctta ggctactacc tgcagtaaaa ttcattggacg at 352

<210> 42886
 <211> 181
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-010-Q1-K1-E8

<400> 42886

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tcagctctgc cttcttcttt cttttttttt tctagcggtt atgaaattct atggaacttg 120
tacgctgacg aataacaacg caactctcac gaataacaac gccaatcttt aaagttcatc 180
g 181

<210> 42887

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-E9

<400> 42887

cgcgtccgca caacgcgaat gtgcaaactt actactagca ttaagatgag cagcaaactc 60
acagtttaat ggatcgagct attaaggagc atgggtgtaca agctgcacct taccaagcag 120
gtgtccattt caaccaacat ctgcttgcatt tctcaggagc tatagcccga cctcgtcttc 180
cacttctgcc aacccctgac atgcctcatg gggtttgctca agcacctggc gcaccattgc 240
tgccaggaat taggcccccg attttaccag ctccaggcta tactgatgct ccaccaacca 300
tgc 303

<210> 42888

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-F1

<400> 42888

gtaagggtaa ggtggccaag gataccgtgt ccgagtcacc tgctccaagc cccgcccccg 60
tctgcggccc ttagttgctt ggtgggcgcc gcttgccgcc ggcccccgcc caccatgcgt 120
cgtgtctgct cgcgcacgca cgcattgaac gggagataga atatggtatc gttcaatgca 180
gattgccatg ctatagctcc agagtttata tacctggtag caccatgaca cgatggcccc 240
ttcgtatctt ctggcttgct cgtacttttc agttccatgg ttttacaaca ccttttactt 300
ccagcagaaa atacataata tgcattgact cctctttttt tccgtatagt aatataaaca 360

aattttcac

369

<210> 42889

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-010-Q1-K1-G10

<400> 42889

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agtaggcctg ccggttaaagt gaaggagaaa gctctggaga cagtcacgca acatgttcac 120
tatgaggatg agaacactcg gtacatttgc attggctctg taaacaaggt attaaatatg 180
ctagcttgct ggattgaaga tccaaactca gaggccttca aactccacat accacgagtc 240
tatgactact tgtggcttgc tgaagatggc atgaagatgc atggttataa tgggtggccaa 300
ctttgggata cagatctcat aggtcaagcc attgtggcta ccaaccttac cgaagagttt 360
gggtccaccc ttaacttagc acacaactat atcaagaaat cacaggttct tgacgactgn 420
cctggtgatc tg 432

<210> 42890

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-G11

<400> 42890

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acccaactgc tttaccagtc ttgcccttac caatcactga ccttggttct cattggcccc 120
ttccttgatg gctttttgac taacccaaat gtctttgcta ttaattatac atctcaagtt 180
gtgtttttca tcgtcatgac atgcttgata tctgattcag tgaacttcag cactttcctt 240
gtgatcggca agacatctcc tgttacttac caagtgcctg gccatcttaa aacatgcctt 300
gttcttgctt ttggatatag catgcttcac gatccgctta gctggagaaa cataacttga 360
atactaattg ct 372

<210> 42891
 <211> 290
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-010-Q1-K1-G9

 <400> 42891

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 tgcagtatgc atacgagata tgtcatatgc ggtagtatgg ttaccgagat ctgtagggat 120
 gcatatgcat atgatctacg cctttgcaca ttatatgtga tgctgcgatt atgagcacta 180
 caataatcac gacctcataa ttacatacga aatgatccat gcactcaagt ccaagcctga 240
 tctgcagaca caaaagttcc ttgtgtattc ttttactaga ttattgaccg 290

<210> 42892
 <211> 468
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-010-Q1-K1-H2

 <400> 42892

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 tcctgtcagc ccaacgaaaa tgtggcgcg ctaaaatagc cgcactgtgt acatcctcaa 120
 cgacgctgcc ctcaacacgg ccatggcacc ggcagaatca ccgaatgcag gcagtcctga 180
 caaggcaccg acctagtcac caaaggcacg cagtcctgca gcatatgcca atgcacctga 240
 gtctgtgcc acgagaactg cccccgctaa tgcacctcaa gccgcctaca cctccggcgc 300
 tgccgatgcc ccatcttcgt caacaacctt ggaagtctga gccagctgcc gagccgacca 360
 ccgacgtctc tacaccgtct tcttccacgg acgaggagtt gagcccttcg ccgtcagcat 420
 tcaccgtcga tgtggcgctc cctgccgctg atgggcctgc tgatggac 468

<210> 42893
 <211> 507
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-010-Q1-K1-H4

<400> 42893

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tcgctgttcc cattctctc gtcgttcgaa actggcccct gcctcacctg gtcgtgggca 120

ccggcgggctc cacacgggat gtggccacgc ctgacacctn cacctccatg gctgagtgac 180

ggatgagcgg ctgggaggtc tcccgcggag cggtccact agccgcctca acgtgcaggc 240

gcaggagttc gtgccgcgcg ctgccgcggt gcccctcccc cttcgcaaca gaagcggttg 300

ccattggtag ggttggcaag ttcggtcccc accgtgctg cagagcagga ggccgaaggt 360

gagcattttt atgccttctt gtcaggggaa ctttttgag gtatcagatc ttgggtattt 420

tctggtgatt cagttgtgta ttcttgagc tgaaagactc ggaagaagta atatatcggc 480

aatagctagt tccattaatc aaatatc 507

<210> 42894

<211> 342

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-010-Q1-K1-H6

<400> 42894

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agcctaacga caacctgcgg aagccgatcc aggacgtcaa cggcaggacg aagaacttgg 120

acgacattgg agccggccac gtgaacccga agaaggccat ggaccctggc ctagcgtaca 180

acatgactga catgggctac gtgccgtacc tgtgcgggct caactacacg gacgacaagg 240

tgagcacgat catctaccta gagacggctg tgccgagcac gaagcaggcg atcattatca 300

ggacgacctt aactacacgt ccatcacctg catcctgaac ca 342

<210> 42895

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-010-Q1-K1-H9

<400> 42895

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 atactaagta tttaacaatat gccagtccga acacaagcgc tgctgggtct gtatatgttc 120
 tcatgtagga tgatatattg gacttttgat ctgtgaacag agctgcgtga taaaaaccgt 180
 gaaatcagac tatatgaggc acctggctgc tcgagcctgc tacgtgatcc aatcaaactg 240
 gtgcctgcga caatggcatg cgacgttcgt gcagctgcct cacctggcta atcatccgac 300
 tgtccttaaa ctgtagcctt atgacctaata tagcatcgct gcagtggtga ctctgatata 360
 gtcactatat gcgggacagg ctgtgcaacg agtctagata ctgccgtag atgggtccaca 420
 c 421

<210> 42896
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-A3

<400> 42896

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 gatgggatcc ctgcctaata acatcatggt cgtgggtgtc gtccttgag cgctcgtcgc 120
 cggcgggtca tgcgggcccc cgaatgtgcc gaccgggtccc aacatcacca ccaactacaa 180
 cggcaagtgg ctaccgccca gggccacctg gtacggtcag cccaacagtg cctggactgc 240
 tgacaacggc ggtgcgtgcg ggatcaagaa cgtgaacctg ccaccctaca gcggcatgac 300
 ggcgtgtggc aacgtcccca tcttcaagga cggcaagggt tgcgggtcat gctatgaggt 360
 gagatgcatg gaaaaacctg agtgctcggg caatccagtc acggtgtaca tcaactgacat 420
 gaactacga 429

<210> 42897
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-A5

<400> 42897

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ggcatctaca tgagctggat gggcctgcct tactttcaaa ggtgattaga agtaggcctt 120
aaaggggacc caagtgatga attctcgatt tcaagcttat tccctggatt ttttaaggcct 180
atattggatc ctattgcttg tgcattccac acacttttgt gtgggctacc tgcaagacct 240
gaatgcacag gccagacatt ggatgggtca cagttacctg gttcaggctc cactgaggca 300
aacaggatga gagaaagggg ccataaggca ctggagcaga gactggcaga gaagctggct 360
gcagtcagga aggcggaggg cacg 384

<210> 42898
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-011-Q1-K1-B1

<400> 42898
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gggctcgcgc agctcggcca ggcggggggc agcatgccgg tggcgtcgcc catgatgggc 120
tccttcgggt gctgcgcgcc ggagtacgac aggaccgggc aggccaccat gaagtccgac 180
gtctacagct tcgggggtggt gctggtgcag ctcatctccg ggaggagggc cgtcgacacc 240
agcaagccgg tggacgagca gaacgttgtc acctgggcca tgccgatgtt caaggaccag 300
aagagatacc atgagctggt tgatccactc ataaaaaagg agtacgctgc caaagcgctg 360
aaccaggtgg tcgccatggc tgcgatgtgc ttgcangaag aggactccgt gcgaccgctg 420
atggccgacg tcgtcatgac gctggg 446

<210> 42899
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-B3

<400> 42899
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caggatagcc ctttgtgggc tcaaacattg ctgtaacggc tcgtgtgaaa attgccaggt 120
catggtttta ctctaaaaaa aaaaaacata ataaaaaata aaatgaaaaa atcat 175

<210> 42900
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-011-Q1-K1-D11

 <400> 42900

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 cattgataag actatggcag ggcgcgcgct tcttctgcaa ctgggcttgg cgcttagtct 120
 tttagatcca cgccttcgac ccggtggtgt acgaaccgtt caattaagac ttctaaggga 180
 caagggtcag ttccaagaaa gatgaatacc aaggtagtga gaagcatgcc cagaatgaat 240
 ctcattgagga ctatggcctt ct 262

<210> 42901
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-011-Q1-K1-E3

 <400> 42901

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 gagaaggctg gaagtggaaa gaagtgggtt cttgcttgag ctgagctctt gctgcccttg 120
 aatctgtttg ggagtggaga acggagtatg gggcgcgcca agatcgagat caagaggatc 180
 gagaactcta ccaaccggca ggtgaccttc tccaagcgcc gggccggact ggtcaagaag 240
 gcacgggaga tcggcgtgct ctgcgacgcc gaggtcggcg tcgtcatctt ctccagcggc 300
 ggcaagctct atgactactg ctcgcccagg acctcgctgt ccaggatctt ggagaagtac 360
 cagaccaact ccgggaagat tctgtggggt gagaagcaca tgaacctgag tgcagagatc 420
 gacagagtca agaaggagaa cgacaacatg cagattca 458

<210> 42902
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-011-Q1-K1-F4

<400> 42902

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cgtcgccatc cgagcgaaca agccaaccga ccccgctcccc aaggcaatcc gccgtcgacg 120

taccaccacc accgcaggag cgagatggag atgaagagga tcctcttcgc cgtcctcgtc 180

gtcatcgccg cctcggccac cgcagtgtg gcctccaccg aggccgccgc cgcggggcgcc 240

ccaactgcct ccgagtcgtc cgccgaggct cccgctggcg ctggcgctgg cgctgccgct 300

ggcgccgtcg cctcggggcc ctccgccagc agcggcgcg cctgcctcgc cgtcgggccc 360

gccgcgctcc tcttctccct cctcgectac tacctccact aagcgtgtgc gtgcgtacgt 420

acgcgcgcat ggacgacgat 440

<210> 42903

<211> 493

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-011-Q1-K1-G4

<400> 42903

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gaaacttttg ctgatgtcct taaacaagct ggtggaaaag tagagttaca attgtataaa 120

gggaaaacac atactgatgt atttttacag gatccactaa ggggcggcag ggacaaactg 180

gttgaagatg ttttatctgt cattcatggt gatgatgcaa gtgcgcgtga gagggacgct 240

tcggcaccta ccctgagcg cctggtttat gaatggcaaa ttaaattggc ccgccaaatt 300

agtcccttct aaacaggctt gtacacagaa aggatttggt ccaagacttc aacaagcatg 360

tgttgcaacg tgataaacta cgtgggggtac atgatatttc ttgggatttt cactgggtca 420

agcaaacgca gtttcaatct ttgtttgcag ggcgccagtt gccaatgatg gcagaagatt 480

tgccactgat gga 493

<210> 42904

<211> 520

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-011-Q1-K1-G7

<400> 42904

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gtgcccacat catcgcgctcg tccgtcagct ctctcgtcag tctcgcaccc tggcctccag 120
cgactctgtc agtgcctcgt gtcgctacgt cgtcctcgag ccgcgggtgc ggagcatctg 180
ggacatcata atggcggcag tggcgaggaga tcggtaggtt tcgcggcggc gagagtggca 240
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cctaggaggg cggtaggggc gcagtcgctg cagacgaccg ccaccgaggc gctgacggcg 360
gatctcgccg gcacgaccaa cggcgctgtg catgctcgga tgaatagtaa ggctacacgt 420
gaaatcactt cacaggcagt tactgcaaat tctaggagaa agacatagat agtctgcacc 480
ataggtccct gaaccaacac tcgtgagatg atttgaagc 520

<210> 42905

<211> 358

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-012-Q1-K1-C1

<400> 42905

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ctcgctaata acatcatggt cgtgggcgcc gtccgtgcgg cgcttgctgt cggcgggctg 120
tgcgggcccc cgaagggtgcc gccgggcccc aacatcacca ccaactacaa cggcaagtgg 180
ctcaccgcca gggccacctg gtacggtcag cccaacggtg ccggcgctcc tgacaacggc 240
ggtgctgctg ggatcaagaa cgtgaacctg ccaccctaca gcggcatgac ggggtgcggc 300
aacgtcccca tcttcaagga cgggaaaggg cttgggctca tgctacgagg tgagatgc 358

<210> 42906

<211> 355

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-012-Q1-K1-D2

<400> 42906

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gggtggaaat ggaggacggg cgtgtggcca acgtcgctct cggcggggac ccccaagtgg 120

cactgttttg tgtgttcgat ggccacggcg ggaaaaacgc ggcagagttc gccgcggaga 180

acatgccc aa gtttatggcc gaggagttga cgaaggtaaa cggcgggagag atcgaaggag 240

cggatgaagag gggttacctc aagacggacg aggagttcct caagagggac gagagcgggg 300

gcgcgtgctg cgtcacagac gtcctccaaa aggggtggact ggtcgtctcc aacgc 355

<210> 42907

<211> 382

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-012-Q1-K1-E1

<400> 42907

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aataaggtcc cgcccttttg cgacattcac aggggggaca ggaaatcagc ggccatggcc 120

tcgattccgg cgacgacctt cgccgtcatc ttatccgtcc tcttctgtgc cgcggctggc 180

accgccgtcg acaacgacct ccccgactac gtcattccagg gccgcgtcta ctgcgacacc 240

tgccgcgccg ggttcgtgac caatgtcacc gattacatcg cgggcgccaa ggtgaggctg 300

gagtgaagc acttcggcac cggcaagctc gagcgtcca tcgacggggg gaccgacgcg 360

aacggcacgt acacgatcga gc 382

<210> 42908

<211> 482

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-012-Q1-K1-E10

<400> 42908

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cccgtcttc actgcenntc cctcaccaaa taaggggtcc cgcgcctttt ctcgacactt 120

cacnnagggg ggaccaggnn aaatcagcgg cccatggccc ctcgattctc gggcgacgaa 180
 cctnntcgcc gtcattcttat cccgtnnccct cttctgttng ccgcggcttg gcaccgcccc 240
 gtcgacaacc gaacctccct cgactaccgt catctcaggg gccgcgtcta ctggcgacac 300
 tctgctncgc gccgggttct gtgaaccaat gtcactcgag taccatcgcg ggcgccaaag 360
 gtgaaggctg gagtgcaaag cacttcggca ccggcaaagc tcgagcgctc catcgacggg 420
 gtgaccgacg cgaacggcac gtacacgata gagctcaagg acagccacga ggaggacatc 480
 tg 482

<210> 42909
 <211> 454
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-012-Q1-K1-E3

<400> 42909

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 ttgtccacc ttctcacgt cgacagggcg gcaccagag acgttcgacc agtccgtggc 120
 ggcatgata aagctgatga ccgacggcag tgccagcatt acacggttca actacgccgc 180
 cgtcatagag gccgccttcg ggttcgcggc gctcaagata agcccgtctg acgtcagcac 240
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 ctactccgac cctggaaaca gcggcggtt cagcggcagc tcttcgtccc agacgtcggg 360
 ggaagatgag tcgcggatgg gcaacctggc agtcaacatg ttcattcaagc tcgcggaggc 420
 gctgcgcaag acgagcctag tccggcgaga ggag 454

<210> 42910
 <211> 374
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-012-Q1-K1-E5

<400> 42910

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accctaaccg gtcacatccc gggggcgagg gcctaggtgc tggccccggc ctatgcacac 120
 ctgaacgggg ccccccgag gcacaagcgc tcggccctg gctgcacca gcagcgcgcg 180
 ggcgaagccc ccagcggtt cgacacgggc gcgccccct gcggcgactc agcggtcatg 240
 gccccgggt gcacagcgca ccgggggcgt tgctcctcgg tcagcgagcg caagcaggcc 300
 ccccatcggt cagagcgga cccccggcct tagtctcggg ggtggcgccg cccccgcaag 360
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<210> 42911
 <211> 107
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-012-Q1-K1-E9

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<210> 42912
 <211> 400
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-012-Q1-K1-F8

<400> 42912
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 ccgatcgaat cgatggccgg cgagggcgag aagaagatga taacctcaa aagctccgat 120
 ggcgaggagt tcgaggtgga agaggcgggtg gcgatggagt cgcagaccat ccgccacatg 180
 atcgaggatg actgcgccga caacggcatc cctcttcta acgttaactc caagatccta 240
 tccaaggtaa tcgagtactg caacaagcac gtacatgccg tcgacggcgc cgtcgtcgcc 300
 tcgaaggccg gttccgacga cgtgggtgcc gccttcgnca acagcaccgn cgtcttcggt 360
 gaggacctca agaactggga tgcggacttc gtcaaggtcg 400

<210> 42913

<211> 495
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-012-Q1-K1-G12

 <400> 42913

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 taccttttgc tgaaagggag cgtgatgctt attaaggggt tctgtaaaca ccttgtgggc 120
 ggaggggaaat tctagatatt gctgaaatct tccgagcaaa acctattgac gtttctgacc 180
 atacagtaac ccttcagctt actggagatc ttgacaagat ggttgacta caaagggttat 240
 tagagccata tggcatctgc gaggtcgcca gaactggacg agtggcactg gtccgtgaat 300
 cgaaggctga ctccaagtac ctccgcgggt actctcttcc attgtagcct ggcatttgtg 360
 attggtgggtg gacccgataa agagcttgggt ttgttggtat agatcagacc atctcgcgct 420
 gggatgtgtt gtgcaattac aggacctgtt tctttcatgt tgtgaactcc ctggcctgcg 480
 agttcaataa tgccc 495

<210> 42914
 <211> 272
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-012-Q1-K1-G7

 <400> 42914

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 ggggagtacg ccggcaagaa caacaagacc atggctgtgt gcagcaacgc caagggaacc 120
 gccaaagggaa gctccaggc cctggattgc ctgctctgat cgatgacctt gcatttgcac 180
 gcattcttct tccgtttcac ttttccatat tctattgcgt tccagctaag catcttgttt 240
 cttgcagaat atatatat atcttacta aa 272

<210> 42915
 <211> 181
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-012-Q1-K1-H3

<400> 42915

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gacacagctg gaccggggat cggatcggag ggttcggttc acggtggccg gtggggggatc 120

ggaggccagc gcggcagcat gcatgccctt ggttcgttga atcgttcggg ttcggtcctc 180

c 181

<210> 42916

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-H5

<400> 42916

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atggacgaca acttctcgac catcatcagc gtcgccaaat ggggcccggc ggtctacatc 120

aacatccaga agttcgtgca gttccagctc acggtgaacg tcgttgccct catggtgaac 180

ttcgtctccg cgtctttcac agggagcggc cctctgacca tcgtgcaact gcttgggggtg 240

aacctgatca tggacaccct gggcgccctg gcgctggcga cggagcccc caacgacgcg 300

atgatgcg 308

<210> 42917

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-012-Q1-K1-H7

<400> 42917

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gctgaggtgc acctgaagca actagactct tctatttcca agctggaaat gaactatcat 120

gcagattcag aacctaggaa ttcaaagaca gaggttgctg aacacagggc acctgatgat 180

gctgacttga taaacaccct ccaatggcga gcctttggaa tatgaagttt gtgctgggat 240

tactatcgat gcaaatatga agattggtaa gccagcttca acgtctcaga attcacaaag 300

atagggataa tgcagctggt cctccaaaac atgaatctga caatgatgaa gatatggatg 360

tggaaatgga agttgatgaa gataatgtcg aagagcaggc acagtgcagt tctgtacctg 420
 aaaaggagca 430

<210> 42918
 <211> 231
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-A11

<400> 42918

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 tggcgaccgt gacgcggagg ctgtcacga cgctacttaa aaccctagct cgcggcctct 120
 cgcgcgggct ttctaccgag aaagccgttg gtgcaggcag ccacatcggt aagcacaccc 180
 ctgacacgat gcaagacacg agcaaggagc tgcccatgga actgatcaac g 231

<210> 42919
 <211> 472
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-A4

<400> 42919

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 cccttctttt ttgttaaaaa aaaaaaaaaa gaaagaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaacccaaaa aaaaaaaaaa 180
 gggccgccct ttttaaagaa tcaaacttta cttccccttc cttgcaactt aatacttttt 240
 ttttagggcc cccaaaatta aattcattgc ccgcctttta aaaacgtcgt aattggaaaa 300
 accctgcctt aaccaaattt aatcgctttg aaaaaaatcc ccttttcccc agttggctaa 360
 ataacaaaaa ggcccgaacc aatccccttt ccaaacattt gcccacccta aatggcaaata 420
 ggaaccccc tttaaacggc ccataaaccc cggcggtttt ggggtttacc cc 472

<210> 42920
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-A9

<400> 42920

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cggggtgaag cgatccagaa tgcggccttc gatgttgagt accgctgctt cgtcggcggc 120
ctcgctggg ccacggacga ccaactccctt cacaacgcct tcagcaccta cggcgaggtc 180
ctcgagtcca agatcatcct cgatcgggag acgcagaggt cccgcggctt cggcttcgtc 240
accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg caaggagctg 300
gacggccgca acatcacctg caacg 325

<210> 42921

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-F5

<400> 42921

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gaaatggctt ccgcacacaa cgctctccgg gtgtttttca tcctagccgt ggtatgtgcc 120
gtatgcacag cgaaaaggac aggagccaac aaggaagaat cggcggcagc cctcgggtggc 180
gctgctggag gcagcggcgg tacgttcgac atttccaagc tcggctcgac cag 233

<210> 42922

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-G11

<400> 42922

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ttgcgagaat aaggaaaacc ttcaaatcat cttcgaattg tgctgactcg acttcgggaa 120
cacaagttgt atgctaaatt cagcaaatgt gaattttggg tggaccaagt tcccattctt 180
ggcatattc tgtcagctga aagagtagtc gtggatccta ggcaagtgc gaatattata 240
gagtgc aaac catctaccac gggtcaccta gttcgaaagt ttctttggga tgtctagata 300

ttaccatcaa ttcatcccca acttttttcaa aatatccaaa cctattacta aactattgaa 360
gaataatgtg aagttttaatt gga 383

<210> 42923
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-H6

<400> 42923

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cggttgatat ctgaagaatg taatgaacta aagggtgcaaa atgccatgtt aacagacaaa 120
gtctcaatga tgcaggatac ttcaaacaat atcattgaag aaaaacaaac taaaacatcc 180
atgcaaacaa agatgagtac cataaatgag gggaacaatg atctagctac tgacaacaga 240
ggttggtgtc tagttaatga ggaaccagac ctgcaagtaa aggtccaatc attggaaagc 300
ggacttgtcg aagttctaga gaaaaatagc atgtatatga cacagggtgaa gagccccact 360
acagagcagc aagcttggag taggaatgga gaggggggata acgatgacaa aatag 415

<210> 42924
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-013-Q1-K1-H7

<400> 42924

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gaatccctga agcgtgcata tatatattcc tgccaagata aaggtaatgg agtcgtcacg 120
caagttccag ccggccggca ttctgcttct tctgtcatt gtgtccaccg atatggcaca 180
agcaagggaa tgccaaaagg acaaggagcg atttgttggg gcatg 225

<210> 42925
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-A8

<400> 42925

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ccggcaaggg aaaccttgac gggcagggcc cagccgtgtg gagcaagaac tctgcacca 120

agaagtacga ctgcaagatc cttcccaact cgctggatgat ggacttcgtg aacaacgggg 180

agggtgtccgg ggtcacgctg ctcaactcca agttcttcca catgaacatg taccggtgca 240

aggacatgct gatcaaggac gtgaccgtga cggcgcccg ggacagcccc aacacggatg 300

gcatccacat gggcgactca tccgggatca cgatcaccaa caccgtcatt ggcgtcgggtg 360

acgactgcat c 371

<210> 42926

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-B1

<400> 42926

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ctctagtact ggacaagctg ttcgtccttt tagtgacctca gtttttttgg gttttgatgc 120

agatccatca ttgaatatca cagctcgaat ccgtgggtcca aatgatcagt acataaatca 180

tatcatgaaa gaaacagggg ttactgttgt actaagagga aaagattcgg agaattcttg 240

cagttgtcat agtgaagcct cacaacaacc tctacacctc tacctcaca gtagtcattt 300

aaagaacctc gaagctgcaa aagttttggc agagaacctc ctggatacag tagcagcaga 360

attcgggtgct tccagaattt cttcttcaaa agtatatggg gctgttccac cttctcagca 420

gttggttagct ggtgtcgaca cc 442

<210> 42927

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-B2

<400> 42927

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taggttttagc aaggggggtgt tcatgttagt cgatgtgctg gttatccttt tgacgctgtg 120
 ctggtttggt tgtccataga ttgttcgctt caaaggggat gttcatgtta gtcgatgact 180
 tttttgtgaa actgcagttt gatatatgaa gtgcaagtat cgtga 225

<210> 42928
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-C4

<400> 42928

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 gtctgcgttc gtcacgtata gggttgattg ttcgtgtggt agcctcggcc gttgggtgctc 120
 attcagatcg gtgcttctcg cgtcggccaa tagttttcaa gtggcaatgg cggaccaggc 180
 taaccaaccc actgtccttc ataagctcgg tggccagttc cacctgcgct cgatcatctc 240
 tgaaggtgta cgggcccgtg acatatgcc atctgtctca tcttatgaaa ggagatttgc 300
 cacaaggaac tacatgaccc agagcctttg gggcccttca atgtctgtta gcggtggcat 360
 caatgtccca gtgatgcaga ccccgctctg tgctaagtct cctgctgaga aaggaggcaa 420
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<210> 42929
 <211> 281
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-D2

<400> 42929

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 gccaaagttca agtgattagt gtcacggata cagtttactg tgtacaaaga gagagagaga 180
 gagagagaaa tacatggcat tttctccatg atactataat ataatatgat gagatatgca 240
 tactggactt tattaagcag agtaaggggt attacagtcc t 281

<210> 42930
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-014-Q1-K1-D3

 <400> 42930

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 ctgtgatgat acacagggca atcctaggtt cgggtgaaag gatgcttgcc attcttttgg 180
 agcattacaa tggtaaattg cccttatggc taagccctcg ccaggccatt gtttgctcgg 240
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 ttcattgtga tattgacgcg agtgacagga caatacaaaa gaaggtacgg gaagctcaac 360
 tggcccaatt caactacatt cttgtcgtan gtgcacaaga tgccgagact ggaaatatat 420
 gcgttagggc aagagacaat 440

<210> 42931
 <211> 463
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-014-Q1-K1-D8

 <400> 42931

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 agctgctaag ccacctccta agaagcggat ggacaagctt gacactgtct tttcctgccc 180
 attctgcaac cacgggagta gtgttgagtg ccgaattgac atgaagaatc tgattggcga 240
 agcatcttgt agaactctgtc aggaaaactt cagcacaact gttaatgcac tcaactgagcc 300
 tattgatata tatagtgaat ggattgatga gtgtgagcgt gtcaaacactg ttgaaggcga 360
 cgatgatgcg tgagcttgcc ccatgcatg aaactgttac ctacaatcgt aatgtaatgt 420
 gctggatttc tcgaatgcca tagcccatag tcagncatgg ctt 463

<210> 42932
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-014-Q1-K1-E1

 <400> 42932

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 tgttcagaag cagtagttca tgttttttgt gtgccgagct gatgaatatg tttatgttcg 180
 tataaacagg atgaacacta gctatgttaa ggatttgctt ataaaaagtt acaccgggtc 240
 agatgctgtt ctgtagcgt acattgtctt taaaaactat ttgcattctg tatgacaatg 300
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<210> 42933
 <211> 477
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-014-Q1-K1-E2

 <400> 42933

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 tgatggacag gcccagctg ctgacgagga tgacgatgat gatgttgacc tttttggcga 240
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 gactgacatg gccaaactcg aggaagctgt taggagtgtc cagatggaag gactgctttg 420
 gggcgcatnc aagcttgtcc caagtggata tggcatcaag aagcttgcaa tcatgat 477

<210> 42934
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E3

<400> 42934

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cctttgtatg atgacatagt atataaagtt gaagcttcaa aggatgggta ccatctcaaa 120
caaactggcc catacacctt ttcttgtcag aagcttggtc agatattagt gcggatttat 180
ggtgaaaatt cagagctttt accttagta ttattatcat tgagtggcga gaaagggtac 240
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agtttctatc tccgaccact tctaaaggaa tataaattca atccgtcagc agtagctatt 360
gatcttaatt ctggagagtc tagggaggct gaatttcgtg caaccagagt ggcttacagt 420
gccatggggt ctgtaacac 439

<210> 42935

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E7

<400> 42935

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cccacattgc gcgcgcgtct acgcccgagg atcgatgggt ggcggcgggg ggcgccgcgc 120
ggcgctgggg cgetggtgcc tggatgcct ggccgtggcc ttgcgcctag ggtctctggt 180
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ttccctcaag tccatgcgcc cagggttgc caacttctca ataacagatt gtgggaaaaa 360
caaccctgag cttgccaaag aga 383

<210> 42936

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-E9

<400> 42936

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ggaggagaaa 70

<210> 42937
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-F12

<400> 42937

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gaccattggg ggaggtgatg atgctttcaa caccttcttc agtgagactg gcgctgggaa 180
gcacgttccc cgtgctgttt ttgttgacct tgagccact gtcattgatg aggtgaggac 240
tggcacctat cgccagctct tccatcctga gcagctcatc agtggcaaag aggatgcagc 300
caacaacttc gctcgtggtc actacaccat tggcaaagag attg 344

<210> 42938
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-F5

<400> 42938

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gcccggggac agccccaaca cggacggcat ccacatgggc gactcgtccg gggtcaccat 180
caccaacacc gtcattcgcg tcggcgacga ctgcatctcc atcggccccg ggacctccaa 240
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gcggtacaag gacgagaagg acgtcacgga tatcaacgtc aaggactgca cgcttaagaa 360
g 361

<210> 42939
<211> 420
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-F7

<400> 42939

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gccctcgcgc tagtggcggc caccgccccca caggtagcgg aggcaaagaa gaagagagcg 180
gcgagagcg gcgaggcggc ggaggcgaag aagatccagg acgacttctg ctcgacgctg 240
tgcgagggca agaaggggac ggacctggtc gtgtgcaagg agtctcgcc tctctcccag 300
cagtccaacc tgggtgctgta cggcaggatc cagtgcgaagg gcaagtgcac cgagcagaag 360
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<210> 42940

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-G6

<400> 42940

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gttggtggcgt tgtccttctt ggtgagcggc gcatggtgcg gtcctcccaa agtccccct 120
ggcaagaaca tcacggccac ctatggcaag gactgggttag acgctaaagc aacatggtat 180
ggcaagccga ctggtgccg tcccgcgcac aatggtggcg gctgcgggta caaggacgtg 240
aacaagcccc ctttcaatag catgggcgcg tgctgcaaca tccccatctt caaggatggt 300
ctgggttggt ggtcctgctt cgagatcaag tgcgataagc ttgtggagtg ctccggcaag 360
cccgtggtgg tgcacatcac ggatatgaac tatgagccta 400

<210> 42941

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-014-Q1-K1-G7

<400> 42941

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 aaaagttgat gaaagaagac ctggtgctcg ctccctggga cgtaaaaaag cactggcatc 120
 ctccaagaag cagagccgaa gttcaaagaa accattatct acttttcact ctacacccaa 180
 gaagaaaatg ctggacaatg tgtttatctt taatgagaaa tgcacaccta aaacagtgga 240
 tcagggtgaa acaaataaag cgactgagtc acgtggtagc aggtctcctg attctgccaa 300
 aaaaagagta aacaggaaac agacatacct ttctccaact gaggatgaag ggattaaaag 360
 ttctgaaaca agttttgcaa aaggatataa atctcacaaa tggccttcag atattgatgt 420
 tcctgataaa tctcctgttg agcatatggg taggaaatca aatc 464

<210> 42942
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-014-Q1-K1-H5
 <400> 42942

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 tggcagccgg cgccggcgcc gccaaacgct aggtgctgag gccttcgcca gtgtcttcga 120
 cggcgacgag cacgtaccag catcatgtcg gaaagaggtc gcctggcagg acgattgatt 180
 gataaccgca gcagagggtta ccatgtagtc cctctagttg aggatcccag aggccatcct 240
 gaagtcctcg tggatgggga tcggaggggc tactctgaca ttcgtggggg tcagcaacgt 300
 cggggctacc ctgacacca tctgcttgag gaacctaggg gctaccctgg tgttcgtgtg 360
 gtcgaccata ggggctatcc tggcagtcgt ggggttgatg aacgcatggc ctatcctgag 420
 c 421

<210> 42943
 <211> 282
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-015-Q1-K1-A1
 <400> 42943

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atcgctaaac atgatcgagt caatgaactt gtcgcaatcc attgggtctg acttgcttta 120
 ccaaatcagc atgcagagac ttaggcacta tacgttatac atcgtataac actatcaaaa 180
 gtaactgtgt ccggggcccta atggtggcgc gttegggtaa gcagacatac tcagtgtctg 240
 aggtgatgca acttgaccag gtgctaaacc caagatatct ga 282

<210> 42944
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-C2

<400> 42944

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 gataaaacga gagaaggatg gcagtgtctc agggagctgt cctattcttg cttctcctac 180
 tcgtcgcagc agaggtggga accatcgatg ccaaaatggg agtagccatg cccatgcatg 240
 ccttgataat ggagaaagcg aaacagcacg agaaggagaa gaaggaggag aaaagcacgg 300
 agaaggaaga gagtcaatgc ttatcgccga gtctccagtt cgagggcttc tgcttcaaca 360
 gcgacagatg ctcttaggtg tgcata 387

<210> 42945
 <211> 149
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-015-Q1-K1-C9

<400> 42945

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 cgtttagtat gnttgtgcat tacgtgaaag ggaaaaatcc ctgataccag agccaatcta 120
 ctgggtctct ttagttcaga ttttattat 149

<210> 42946
 <211> 167
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-D10

<400> 42946

aacatacata ccaagcgata cgccatcatg catcaagacc agcccaggta tatgagtgca 60
tcccagatcc tatgaaacta gcgtaacaa cgagcccaca acgacagaac caatcgttag 120
gtactttcgc aagacactga aaagagggaa cattccgaca gtgaaca 167

<210> 42947

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-D12

<400> 42947

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ttgattattg gttgggtcac acaatactac actagcaatg catacagtcc cgtgcaagat 120
gttgcggtatt catgcagaac tgggtgctgac actaatgaca tttttggtct tgctcttgga 180
tacaagtcga ttatcatacc aattttcgtc attgctgtta ccatctatgt cactttctcc 240
attgctgcga tgtacggcat tgcatttgcc gctcttggtg tgctgagcac aatcgcaact 300
ggctcttgcta ttgatgctta tcatcccatc agtgacaatg ctggaggtat tgctcagatg 360
gctggaatga gccacaaaat ccgtgagaga actgatgctc t 401

<210> 42948

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-D6

<400> 42948

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atacgccttc ttcgacggga ggataggaca tcataagtgg taggccgacg cgaggaagac 120
ctacaacctg atggacaccg tcagccggca caagaaccaa atgtacgcga cttcattgac 180
cgaaatcatg ctgaacttcg acaacgcggt catgtggatc ttgcattcca acatctggga 240
accgta 246

<210> 42949
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-E2

<400> 42949

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ccttaaaagc gctggagagt ttaaaggatt ggtccaaggc ctctggcacg cttgccgtat 120
aattcacctg cgcaagtttt gggcgcttta gaaaagccag cgcggtgcccc tgggtgtggga 180
aagttttaaa atgtggtaaa gttcacattt agagaggctg acacatctac gggagactct 240
gatgatgatg gtgaggatga ataccacctg ttagaggctt taaaagtttg atcagctgat 300
tatctgctga ggggtt 315

<210> 42950
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-F3

<400> 42950

cccgggtcga cccactcggt cggaagtcac gccctttctg atcccttctt ctctttgacc 60
tcgcttgga tgaacttagg ggggtcatgc tgaatatcca taaccaacag acgttatctt 120
cttcaccaca cgtgtgcgat ctcgaaattg ccagagacat caaaggaaaa catgaatatg 180
ttgatcttga atcctaccag cagcttcaga atgccaagag caggtca 227

<210> 42951
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-015-Q1-K1-F4

<400> 42951

gtcccgatt cccgggtcga ctacgcgtcc gcggacgct gggcggactc gtgggagagg 60
ctgctgtctc acggctgcgg ctggggcggt tggggctcca gactccagg atggccgccg 120

gtgcgggagg cggcgaactg gaggcgctgg agggcgctgc ctccatcgtg ctcaagccgt 180
 cggagtcgct cgacgagtcg cgtttcacga ggatcgccgg cgccgacttc aacgaccgg 240
 ccatcggact ccaggggctg ctgcctcgc tcgcgtccac cgggttccag gcattcaacc 300
 tcggcgacgc catcgacgtc gtcaaccaga tgtagactg gaggttgctg catgagaagc 360
 ccagcgagga ttgtgatgaa gctgaacttg accctaaata tagagcatct gtgaagtgca 420
 agatatttct gggcttcacc tcgaacctcg tgtcttctgg catccggg 468

<210> 42952
 <211> 186
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-015-Q1-K1-G11

<400> 42952
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 taccaccaac gattggcttt gagtcgctgt caaaaacaac gtatctagaa caccgatctg 120
 tacgtctaca actctgggat actgcaagac aagatacgtt taggactcct attccaagct 180
 acatca 186

<210> 42953
 <211> 194
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-015-Q1-K1-G12

<400> 42953
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 cccaccatat aactgggaag cataactttc cttgattga agtgaaatta gtaaaaaatt 120
 aaaattaacc ctttgtgcga ttacttcatg tttacccatg gaacataaat ttcatgatac 180
 cttctttttt tttg 194

<210> 42954
 <211> 284

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-015-Q1-K1-G2

 <400> 42954

 tatggatctt gattctagcc gccaccgctg atcatctgac atacgtcgag aagacgcctg 60
 ctctctgact atcgatacga aggcgtctac tacgaccttc acacacgtcg acagcctcaa 120
 ataacctaga ggctgaccct gacggcaaaa cctattgcgc caggtgacta cattactaaa 180
 gatgacatct aggtctcggc ctgggtacca tcaaaacctg actctgaggt tacatatatg 240
 ccataccgat ggtacgagac cgtctctgac gatgtagcct caag 284

<210> 42955
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-015-Q1-K1-H10

 <400> 42955

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 tttttttttt tttttttttt ttttttttag ttgggttttt tttatttatt ttttttttaa 120
 aaatatTTTT atTTTTTTTT ttttttttaa aaatttttta tatttctttt ttttctctgg 180
 aaaaaaaaaa aaataatTTT aaaaagcgct tcacaaaaca aaatgtaaaa aaaaaaaaaa 240
 cttatttaag aaaacccttg aacaccacc attggtacat caaaaaaaaa aaaatttttt 300
 acgaccccc cttaataaaa aaatttattt ttaaaaaata atccccccct ttttaaatat 360
 tttaaaaaaaa aaaaaatat 379

<210> 42956
 <211> 298
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-016-Q1-K1-D12

 <400> 42956

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 gggttactta gggttttgtg gaggggcat ggcggcggct gatgtggagt accgttgctt 120

cgtcggcggg cttgcctggg ccaccagcaa cgagtcgctg gagaatgcct tcgcctccta 180
 cggcgagatc ctcgactcca aggtcatcac cgaccgggag acggggaggt ctcgcggtt 240
 cggcttcgtt accttctcct ccgagaactc catgctcgac gctatcgaga acatgaac 298

<210> 42957
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-016-Q1-K1-E10
 <400> 42957

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 cggtgacgac tgcattcca tcggccccgg gacggccaag gtgaacatca cggcgtagc 120
 ctgcggccct ggccacggca tcagcatcgg cagcctaggg cggtaacaagg acgagaagga 180
 cgtcacggac atcaacgtca aggattgcac tcttaagaag acgatgttcg gcgctccgat 240
 caaggcgtag gaggacgccg cctccgtgct caccgtctcc aagatccact acgagaatat 300
 caagatggag gactcagcca accccatctt catcgacatg aagtactgcc ccaacaagtt 360
 gtgtactgcc aacggcgccct ncaaggtcac cgtcaaggat gtcaccttca agaca 415

<210> 42958
 <211> 387
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-016-Q1-K1-F11
 <400> 42958

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 ggagcggcat cccactcagt gcttgcaacc atggctaggg gattgaagaa gcacttgaag 120
 aggctcaatg cgcccaagca ttggatgctc gacaagcttg gcggagcttt tgctccaag 180
 ccatcttctg gacctcaca gtccaggag tgccttctc tgatcctcat catcaggaac 240
 aggctcaagt atgctctgaa ctaccgagag gtcatttcta tctgatgca acgcatgta 300
 cttgttgatg gcaaggctcag gactgacaag acctaccctg ctgggttcat ggatgtcatt 360

tccatcccta agacaatgga gaactac

387

<210> 42959
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-016-Q1-K1-H10

<400> 42959

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catccaaccc cgtgatgggg taatgaagaa agggggaaaa aaacaagaaa atgaaacttt 120
tgtatatgga aggaaaaagc tcaaaacaaa tgaagaacat gcttatgtgc tgattaagta 180
tccaataaat gatctgctgg tgaggcccaa tgcagatgat ccgtctttat ttaaaaaacc 240
tcttctggct acaaatttta tagtaccaag atgttctgtg ggacatctcc ttattgtatg 300
acacttatgc tcgtcttttg ggaaggcttt gaatatgcct ccaatttcgc taacacatct 360
ggacaatgca atttgccaca aagaaaacaa t 391

<210> 42960
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-016-Q1-K1-H12

<400> 42960

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cgaaagggat cttgtttcat ncagagcaag ggcgatgctt atttgtttgg tgaatgcaga 120
agtgtgacga aacgtttact ctttgcttgc accctccaaa cattgcgtat cattcgatca 180
tgnagaagaa anagaacact tttgtcgtga caaanagaag nggcttcctg atgctgttgt 240
ttggaaccct tgggacaaga aggcaaaagc aatgcaagat tttggggatg cagaatacaa 300
gagcatgctg tgtgtggagc ctgcatctgt tgagaggcct attactctga aacctggtga 360
agagtggaaa ggaaggcttg tgctctcagc tgttccctcg agttactgta gtggacagtt 420
agatccattg aaggctcttc anggctgaaa atccttac 458

<210> 42961
 <211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-017-Q1-K1-A6

 <400> 42961

 gctctaccgg ctcgattccc ggctgaccac gcgtccgcaa aatacgtctg cgaatgcagg 60
 agccatgtcc tcgcggtactc ctgcacacac ggctacggct attgcgtcaa cgacttatgc 120
 cagcggcaca tcttgccgct ctgccaagag gtcgactggc tcaaacaatca caaccacctc 180
 ttgaaactaa tgtatggaca ctactacgac atcgtcttgc aagtcgacaa gtaccctgtac 240
 agattacaac tgcgtgacct gctgatacaa tgacgtgaac aagatgacca tccataccat 300
 atgcacaggc cgcaccatcg atatgttaaa ctatggtgca aaccgagcgt cctgctcaga 360
 tatcacgtgc tacaca 376

<210> 42962
 <211> 267
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-017-Q1-K1-A9

 <400> 42962

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 ggggactccg attggacaac atggtcttcg cctcgccatt agcaatgtct tcccctctgc 120
 tgctgctcat ggaggcggag ctggagaagg cactgaggca aaccaggag ctggaggagg 180
 agcggcgct catgacaaa cgcttgacc gcttcctgag gaggtggcc gaggagaaag 240
 cggcgtggaa gtcccgggtc cgggaca 267

<210> 42963
 <211> 475
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-017-Q1-K1-B11

 <400> 42963

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 ccgccggcta gggttactgc caccggttc caccctccc cgactgcccg tgggtggagg 120
 aggctggttg gcgtgcaggg tacctcggcg gcggagatgg agccggactt ctgaccgtg 180
 ggcgggcccc gctttgagtt cgctttcaac gaggccaact tctccgaccg ggaattgcgg 240
 atcgaggtcg tcgcggggga ttacgacgcg ccgggtcca ctggcggcgg ttccggagga 300
 ggtggcctcg ccgactgggc gcgccatcgg aagcggcgac gcgaggagct cttcaaggag 360
 aaagaatcta caacctacat gtcagaccaa actaatttta atgaagtoga agcagaagag 420
 tgtgatgcat atgaagaaaa tcaagaggaa cctgtagcat tgatggaagg atctc 475

<210> 42964
 <211> 205
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-017-Q1-K1-B12

 <400> 42964

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 acagacaatg cgatgagagc cttgttctct ctggtgctct tctgcacgg gcattggtgag 120
 aaggaagagt caaagggcat cgatgcgaaa acgtccgggc ctggtgggtc cttcgacatc 180
 accaagatgg gcgcctccgg caatg 205

<210> 42965
 <211> 217
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-017-Q1-K1-D5

 <400> 42965

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 ttaaacgttg tccttgttct ggaatgttat ccaaccatc aggtgtcctt tttgtacttt 120
 ggttagtgta tgcatattgt catgtgctgt acaaatatat tagcattact aactttatta 180
 cgggtggggc ctagcccaaa cttgatacag ctaggat 217

<210> 42966
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-017-Q1-K1-F5

 <400> 42966

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 acctaagtta tgaaaaagtc tgagacctct gtctctctgt tcttttggtt tcagttaagc 120
 agttagctgg gctaccggca atttgtttgc ttaatatattt tctgttcaa taagtactct 180
 ggatggcata ttattgttta gtcattattga gctgcatatt attgtttagt catattgttt 240
 ctgctgccga tgcccttctg gggagaatga tcttgtaaca gacttgcta tccccgcaat 300
 atattggaat ttttggttaa aaaaaaattc tttaaaacct ttattatata cttcttaaatt 360
 at 362

<210> 42967
 <211> 351
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-017-Q1-K1-G10

 <400> 42967

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 ttcaggcttg gttaaaaaaa tcccctcggt gtgccccatc cgctcttggg ttgcgatgtt 120
 ctgtgcgcca ccgagagggc ggtcattcct ccccgcccaa gtttttctat aaagtaacan 180
 gaaaaaaaaa aaattttatt aaaaaattaa caaagaaaaa aaaggaaaag aactaaatgt 240
 tgtaaagaa ataaaaccaa cttttacaaa agttcaaaac ttttacttat ggggcggccg 300
 ttttaaagaa tccaagttaa cgtaccggg catgcaacgt catacctttt t 351

<210> 42968
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-017-Q1-K1-G6

<400> 42968

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atcagcggcc atggcctcga ttccggcgac gaccttcgcc gtcattttat ccgtcctctt 180

ctgtgccgcg gctggcaccg ccgtcgacaa cgacctcccc gactacgtca tccagggccg 240

cgtctactgc gacacctgcc ggcgccgggtt cgtgaccaat gtcaccgagt acatcgcggg 300

cgccaagggtg aggctggagt gcaagcactt cggcaccggc aagctcgagc gctccatcga 360

cggggtgacc gacgcgaacg gcacgtacac gatcgagctc aaggacagcc acgaggagga 420

catctgcgag gtggtcttgg tggagagccc gc 452

<210> 42969

<211> 341

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-018-Q1-K1-A8

<400> 42969

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acctggatgc tgacgggtgtt ccactgcttc ggccactact tctgcctgca cttcgaggcg 120

ttccagctcg ggatggcgcc cgtgtacatg gccttcctcc gtttcattggg ggacgagAAC 180

gaggccaaga actacagcta cagcctcgag gtcggcgcca acgggaggaa gatggtgtgg 240

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<210> 42970

<211> 89

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-B8

<400> 42970

aaaaaaaaa aaaaaaaaaa aaaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60

gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa

89

<210> 42971
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-C9

<400> 42971

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tttacttaga agttcgtgca agtttgtgaa ccgggaagtg gccaggcata atagagtgat 120
tctatcagat acgatgagaa ttatctactt gtttgtactg gacgcttgcc cacaagagct 180
cgagattacc gatgagttaa aagccagtgt ctgcaagctg ctaaaggacg ccataaatct 240
cagcagttaa ctgctgagca ttacggagca taagtttgct agattacttg tccttgtagt 300
tctaatagcg tgctgtcagc atttatctgg acttatggag gaaattgccg atgcccattg 360
ttgacgtcgc gctcgcaatc gctccctgtg aaggttggag tggatgaacc cagcgacttc 420
cttctgatcc gtgttttctt ttgtgcaact aatatgaaga tgaag 465

<210> 42972
<211> 264
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-018-Q1-K1-D3

<400> 42972

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caccctgtgt cgtgctgtgc gccatccgt tccgcctcca cgctccccac gtgcaccgtg 120
caccgtgcac agcaccacac agccaggtcc ccatggcggc ggcggtggcg gttgcgtctg 180
cgacgacggc ggaagacgaa gcgcgcctgc tgcgcctgga ggagcangcg gagcacggcg 240
gcggcngcgc ctgggaatac ctct 264

<210> 42973
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E3

<400> 42973

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gtacacgagc acaaagcatg actgacagac ggatacttct gctcatcaga ttgcactaac 120
ttcattggag aacgtttctga caaccgagtc taatggatat gatattaatc agaggaaaaa 180
tcgttattat gagaggagtc ctttcgatga cagtcatatc tgcagaggag ttgccaccta 240
tggacattga cggcaaggct gaccattttg tggtcctgta cttaaagaac ggcgaaacca 300
gccagaagac aatggctgag acagacacgc taaatccaat atggaaccag acatttgatt 360
tcatggcaga agatgcactg catgatttgc tcatggtgga agtatcggac catgatacat 420
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<210> 42974

<211> 61

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E7

<400> 42974

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g 61

<210> 42975

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-E9

<400> 42975

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gtagcattct tccagctttg aggcaggtag ttcttagtgg aggatcatgt gaccagctat 180
ggattcagta gtacaatgaa gatggccaat ggatgaaaat tgtttcgcga gaaa 234

<210> 42976
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-F1

<400> 42976

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ttcttggtga gcggcgcgat gtgcgggtcct cccaaagtcc cccagggcaa gaacatcacg  180
gccacctatg gcaaggactg gctggacgct aaagcgacat ggtatggcaa gccgacgggt  240
gccgggtcccg atgacaacgg tggcgggctgc ggggtacaagg acgtgaacaa gcccccttc  300
aatagcatgg gcgcatgcgg caacatcccc atcttcaagg atgggtctggg ttgtgggtcc  360
tgcttcgaga tcaagtgcga taagcctgtg gagtgtccg gcaagccccg tgtggtgcac  420
ataacggaca tgaac                                                    435
  
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<210> 42977
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-G3

<400> 42977

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cggcgcgatg tgcggtcctc ccaaagtccc ccagggcaag aacatcacgg ccacctatgg  180
caaggactgg ctggacgcta aagcgacatg gtatggcaag ccgacgggtg ccggtcccga  240
cgataacggt ggcggctgct ggtacaagga cgtgaacaag ccccccttca atagcatggg  300
cgcatgcggc aacatcccca tcttcaaaga tgggtctgggt tgtgggtcct gcttcgagat  360
caagtgcgat aagcctgtgg agtgctccg caagcccggt gtggtgcaca                410
  
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 <211> 234
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-018-Q1-K1-H11

<400> 42978

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agaaccacct atctgggaat cgntgcatct ttcttgaat cgtcctgggtg tacgggtgaac 120
cgaacaaccc tgaaaaagat catgtctaca aaaaaattga ttatactcgg agtttgaata 180
tccatgatag cagcaaatct attaaggggtg tacctcttcc tagaatttcg tctg 234

<210> 42979
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-018-Q1-K1-H3

<400> 42979

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gagacaaacg ggcgggttac ccgagagaga gaaagaggag ctcatgccct atccgctgat 120
taccgcccag gggagttccc tcctagagag agaaccaagg tggtggccgc cttcgtcgtg 180
caccttcggc gtttcccga ctcgtacagt ccgtgtgccg agcccaacat ggagcgtga 240
acatgctcgt tgcgtcatcg tgcgactgga actctactcg ttgtcgaaga caatccctga 300
atttgtcatg gggatccagc ttaaaaacct ttccactccc ccaggacatt acctgcgtt 359

<210> 42980
<211> 370
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 42980

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tcacccgtga gagagaaaga ggagctcgtg ccctagccgc tgcagtaccg ccagggggag 120
ttccgtcgtga gagagagaac caggggtgtg gccgccgtcg tcgtgcacct gcggcgttcc 180
ccggactcgt acgggtccgtg tgcggtgccc gccatggagc gctgagcatg ctcgttgcgt 240

catcgtgcga ctggaactcg actcgttgcc gaggacaatc cgtcaattcg tcgtggggat 300
 cgagcttaga agcctcgccg cgccccgagg acattnacct gggtctctct gtgaaagggt 360
 ggccgatcga 370

<210> 42981
 <211> 282
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A10

<400> 42981

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 ttccccggac acctagaggg tcaggagggg gatgctgtac gcgagctcca aggaccgggt 120
 caagagggag ctggagggca tccagctgga gctgcatgcc accgacccca gcgagatgag 180
 catggacatt gtcagggcgc gagctctctg aagaggaaga cgcgcatgcg ctgcgcgat 240
 cggcatgcat gccccggaac gacagaagct gcttgtcttg ca 282

<210> 42982
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-A11

<400> 42982

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 acatcgcta ccacgtcacc aagctgggca tccgaccgta cattccgagg agctgacctt 120
 ggccgatggc ggacatcatg acgcggagct gggacgggaa cccatacaac cggccggaga 180
 tgtccaacgt ggtggcgctg ctggagaaga tcgacaccgg cagcttcaag ggtggcatga 240
 cgcccgtcga cgacgtcttg cacgggtgca cctgcttcgg cttcaaccgc atcgtcacct 300
 aggctagctc tctagctcgt cagctcagac atcagttaaa ttaataataa gctacagcta 360
 agtatgcatg gccggccatg ggcattgatc gatc 394

<210> 42983
 <211> 346

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-019-Q1-K1-A12

 <400> 42983

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 tcagtctatg gcaaatttga tgacatcgta ctactgtcag atggagaaac tgtatacatg 120
 ggacctgcaa aagaagaacc tctaacatac ttctcatcat tagggtagca gtgtccagat 180
 catatgaacc ctgccgagtt cttggctgat ctcatctcca ttgattatgg ctcaactgaa 240
 agtgtacagt catcacagaa aaggatcgag gatctcattg aggcgttttc taacaaatct 300
 gtggtcactg aaggttaacaa tctaattgca attgcagacg atcctg 346

<210> 42984
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-019-Q1-K1-B8

 <400> 42984

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 tttcatgata ttcaaccacc gtggaagagt gctgccgtca gactcagacc tgaaactccg 180
 tacatagaca tgtcgtccca gaatccagat cttttttctt tattttccct gctgtaacct 240
 gtagggatga aaacggtcgg aaacggtatt tattcggtaa tcagtttttt agtcgttttt 300
 ctttgattgc gaataaatag gatataata ctacaataca aatttgtatt cttgttttta 360
 acatccagct tgtaaagatt cataaaagggt aaaccttaaa ttc 403

<210> 42985
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-019-Q1-K1-C7

 <400> 42985

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ggggatcacc cggagtggct gcggtcccg tgcgcacacg gtacagacct gtggctctgt 120
 gccgacgttt gggacaggct cggcgagggt gctagacttc gacgcacacc accggttcac 180
 catctacatc accgacagcg atggggaact gcagcacata cggcggtgct ctatcaacat 240
 cagtgagtac acgcccgtg aggacctat gctatggcgc cggttctacc gcaacatgct 300
 aatgcataag gagcaccact ggtctggcat ggactagcaa ttccggtgcc tcattacagc 360
 accttctggg gaca 374

<210> 42986
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-D3

<400> 42986
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 tcatggaaaa ccatcttgct gaaatgcagt atcagaagtt acctcggaat tttgtgcagt 120
 ggggttaatca cggtgatacc ttttggtact aagatcgcaa ttactggaat tcaatatgtc 180
 gccagcttca cagggtgggc attaacacgg atctgagtag tagattatag agtgatatgg 240
 atgctgcggc aaggcatttc tcccgtgata tactccgcac catccccaaa gtcctttatt 300
 ggtccacgtg tttttacaat gggtgagtag atagatatct ttctgttgaa agaaaataga 360
 gatgataatt a 371

<210> 42987
 <211> 256
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-D5

<400> 42987
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 taatgatata ctggcaagtg gtacaacggg tgagtgaatg ggtaaaccat gtggtagatt 180
 aaactgtatc gcctggcatt acatatgact ttcgctagat aggggtggtaa ttaagaggga 240

tgттааgatt gaagtt 256

<210> 42988
<211> 70
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-F4

<400> 42988

aaaaaaaaa aaaaaaaaaa aaaaaaaatt aaaaaaaaaa aaaaaaaaaa aaaaaaaaag 60

agaaaaaagg 70

<210> 42989
<211> 278
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-019-Q1-K1-F5

<400> 42989

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tnnttactgt ctggacacgt tcacaggtga tcgaacgaag gcttgatcga ttgcagtggga 180

cctgtacaag cagtgtctaa gggaaccag tcattccaga tgcttttcag gtnnagggca 240

gcatttctgg cacttgctcac aggtgatcgt ataaagaa 278

<210> 42990
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-F7

<400> 42990

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gcagcagtag cttagacaaa ttagatatgc cttttaagat tctagttgat atgcatgcat 180

tatttagttc acatcgaatg cagcagtggtg ttaactatgt agttgcatac ctatcatatc 240
 taagtatatatt agacgtcttt ctaataatta tttaggatct gtcatcaata aaaatgttgc 300
 aacaattaat aataaaatta taaagggctg ccgctctaaa ggatccaagc tta 353

<210> 42991
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-G10

<400> 42991

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 gcgctgctct cgaccctata atatacaagg agctggccgt atggatgggt tacgctttgg 120
 acgcaagggt ggtcagccag tggaaaatgg tggactggtc gaatacttct ttggcaagga 180
 tgggaatgaa catttacact atgataagtt ctctagatct ttgaagaaat tgcttgatga 240
 gatggcccg tagaagttaa gccctacaa ggggaaatat tccacacca 289

<210> 42992
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-G4

<400> 42992

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 cctcctttca cctactgtgg ggcagggccg ggaggggcgt gccaacgtgg cgcgcatggg 120
 gctcgccgag gacgggtcgg cggacaccgc ccacctcagt aataatgaaa atgggagggt 180
 catttatgga gttgcgagtt ctgctggtta aagagcatcg atggaggact tctatgaggc 240
 aagaatagac gacgtttatg gagagaaaat tggaatgttc ggcgtatatg atcgtgatgg 300
 aggattgcga gcagctgagt catgtgaagc agcagctttt caggaagtta atcaaacacg 360
 ccaaagaaga tcaatgatgc caaagctggg atag 394

<210> 42993
 <211> 279
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-019-Q1-K1-G6

<400> 42993

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aaatggctta tccagaggag gtccattatg gatggaaata cacgttgatg tagaactttt 120

tcaaaaaaag aaaaataaaa taaaaaataa aaataaaaaa ataaaaataa aaactaaaac 180

aaaataaaaa aataaaaaaa taaaaaaaaa aaacaaaaaa aataaaaaaa aaataaaaaa 240

aaataaaaaa aaataaaaaa agaaaaagaa aagaggggg 279

<210> 42994

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-G7

<400> 42994

gtcgaccac gcgtacgcgg acgcgtaggc ggacacgggg gcggttcggg ttgtctgctt 60

ttacacctac tgctggtgcc agggccggga aggcgtagcg gaagtggcac gcatggggct 120

cggcggagac ggatcggcgg acacacgcca gctcagtaat aatgaaaatg tgcggttcat 180

ttatggagtt gccagttctc ctggtaaaag agcatcgatg gaggacttct atgacgcaag 240

aatagacgac gtttatggag agaaaattgg aatgttcggt gaatatgatg gtcattggaag 300

agtccgagca gctgagtatg ttaagcagga tcttttcagc aatttaatga aacacccaaa 360

gttcatcact g 371

<210> 42995

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-019-Q1-K1-G8

<400> 42995

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ttttgagatg gcaatgctat ggtcacaggt gcggacttac cttatcagga tcaggagtct 120

gtgcaattct accctacaga catccatggt tctgaaatcc tgagcactga acgttctggt 180
 ggtgaaagtg gtatcctcag aaatagcgaa tgtgaacaga acacggaacg atcctgcttt 240
 t 241

<210> 42996
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-A2

<400> 42996

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 gaatgtatgg aaatgtgcat gtgggtccaac tgcattttcc tgttcctttt ctgtggcgtc 120
 ttttttggca gaacgcgaaa tgcggcgcgc gtagcgccac cgattgtaga gttgctattc 180
 ctactgccgg agtactccat gtgtgttgga tatcttggtg gcatattaaa taaatgcttg 240
 gacaaaataa aatgattttt tgcccattaa aaaaaaaaaat aatatt 286

<210> 42997
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-C4

<400> 42997

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 gaaagaatgt tgtacatatt atcatttgaa ctctgtccag tatctacgaa gaagttgggt 180
 gctgtttaat tcaccaa atg taacgtaaag ggtaatggtc actgtttaca ctctattaca 240
 gacggttaca aacttgaata gtccgctata aaaactcatt atcgtatctg attaccgttg 300
 tactaaaaca aacataatgt atcgatatca cttacccatc accctac 347

<210> 42998
 <211> 273
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-D9

<400> 42998

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gctaccacta ccctattacg acagtgatgc tggcgccaac aatgatggtg tcctcctcct 180
tctccatctt cttcatctcc atatatagct agagtgaagac ttgctgttg tttaaaagag 240
aagagttaag aaatggattg acacgttata taa 273

<210> 42999

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E4

<400> 42999

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ttcggcgctc ggctcctcct agccgccgtc gccatggcgc cgttcgcggg cgcggcgcgc 120
atcgacgtcg tcgagggcag gtccatggcg tccgcggacg caccggaggc cgccgccgac 180
gctcccgtc ctgctcctgg ccccgactcc tctcgcaccc cgtcgccggc accctccagc 240
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gccacctata acctatcgga tcttgcaaag ctatatatga ttctatggta taatgtgtgg 360
gtgcggaaca cgcgggaaa taatggtgct gcgtgattgg ttttctctct ctttttttgg 420
ttaataatgg aaaacaggca tacggcgatg ttttaacatg 460

<210> 43000

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-020-Q1-K1-E6

<400> 43000

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tccgagcgaa caagccaacc gaccccgtcc ccaaggcaat ccgcccgcga cgtaccacca 120
ccaccgcagg agcgagatgg agatgaagag gatcctcttc gccgtcctcg tcgtcatcgc 180
cgcttcggcc accgcagtgc tggcctccac cgaggccgcc gccgcgggcg ccccaactgc 240
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cgcttcgggg cctcccgcca gcagcgggcg gcccgacctc gccgacgcgc ccgcccgcgt 360
cctcttctcc ctccctgcct actacctnca ctaagcgtgt gcgtgcgtac gtacgcgcgc 420
atggacgacg atggatc 437

<210> 43001
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-E8

<400> 43001

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ctttggaatt cggcatacat gattagaatt gcctcctaaa cccaaacaaa aggattacat 120
atactagaat tcagaagtct cagtagtata tatggttagc ggtgcatgct ctctcatgca 180
atatatataa acttaattag cttgctgctg caggTccata gcccaaccgc cggatgaat 240
cgaagggaat tcaaagtcta gtagaattgg acgttggaaG tgtagacggc atcgggtctc 300
cagttcggcg ggatgacgtc tttggcgatg accttcttgc cggactcgct ggtgaggcgg 360
atggagaagg ggcccttgag cgccttggca gtg 393

<210> 43002
<211> 492
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-G4

<400> 43002

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gttaatactt ctgcactgac acaatctgaa atgcgggata tcattcttgg cgctgaaatt 120
gctccaccat cacagcagag gcaacagatt gctgaaattg agaaacagtc aagagagact 180

actcagttaa ctgctgtaac cacaaggacg acgaatgtgc acggagatga actcattatc 240
acaaccacaa gtccatatga gcaacaagca ttcgcatcga agactgattg gcggtgacaga 300
gccatctctg ccacaaactt gtatctacgt gtaaatacaca tttatgtcaa ttctgatgat 360
ataaaggaaa ctggctacac ttacattatg ccaaagaaca tattgaagaa attcatatgc 420
atagcaaatc tgcgtacaca aatcgctgga ttcttatatg ggctgagtc ccaagacaat 480
cctcaagtca aa 492

<210> 43003
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-G6

<400> 43003
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aaccagtggg tactttcttca tcaatttaac acataggttt cccacactca cccgttaatt 180
aatgcttata cccc 194

<210> 43004
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-G7

<400> 43004
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atatatttta ctctatcacc agaaatcatg cactcataca tattactttc ctaaataaac 180
tctatctctt acaacaacat attttcactc ccattcctaa ctctcctcac tatatcaaca 240
tgacaattcg aagattctct tacacattta tc 272

<210> 43005
<211> 448
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-H2

<400> 43005

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gtggaccctc cacaagtgga gttgacttcc tgcagtgatc tggagaaggt gaaagaaact 180
atggatacca atggctgtaa ctgagttttg agaatggagt ctccctgtaa caccaatgac 240
agtaaatac tatccagagt ggaccctcca caagtggagt tgacttcctg cagtgatctg 300
gagaaggcca ctgaaaatat taagatggac gaagttgatg agaatgcgtt gagtctgaca 360
gaagatgtaa gcacattagt acatgcacca ctaagcaatg ataatgtaaa taaaaatatg 420
ccaaagccag tgagaaattt tgatcgag 448

<210> 43006

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-020-Q1-K1-H3

<400> 43006

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ctgtcacacg tgatacctct ggggagcaac ttggcggggg tgcaaagatg accctttacc 120
tcaaggatga tcagttagag tatcttgagg agcgccggct gaaggatctg atcaagaagc 180
actcagagtt catcagctac ccaatctctc tctggatcga gaagaccact gagaaggaaa 240
tatctgatga tgaggacgag gaagataaga aggacgagga gggcaagggtt gaggatgttg 300
atgagaagga agaaaaggaa aagaagaaga agaagatcaa ggaggtttct catgagtggc 360
aattggttaa caagcagaag cctatctgga tgagaaagcc tgatgagatt accaaagaag 420
agtatgctgc 430

<210> 43007

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-020-Q1-K1-H4

<400> 43007

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atccacaagg ccctcaagta gtagtagtag gtgggttacg ctagttagca cgaactggat 120
agatcatgcg agggcgttga cgacgacggg gcttctgaca tagtgggtcc cgtctgtcca 180
gacgagcctc ccaaagacgt agcccatccc gagcttgtcc tgctgcgacg tcaccgtcac 240
cttgaactcc ttttcctcac cgaccttgct gaactcaagc accctcgggt tcacctccat 300
ggtgatccca accggcgcg cccaggacgc gccacgcgt tcgcacctta ccacgcagcg 360
ttaccggcgg tactactata tctacatacg accgtgggac aacgtcgacc ggagctcgat 420
cggcgagtt gccgcatggg cgtg 444

<210> 43008
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-B10

<400> 43008

gggggaccca cgcgtccgcc cactcgttca cccactcgtt cgttcactct ttcggaatca 60
tcaattacca attgaggggc tctgtattgc tcaatggagt gctgtttcta attttacctt 120
aaagtatgct ttctctatca ttcatttgca tatatatggt gtcatatatt tgtttcacac 180
tcatattatt ctgatatcta gttactatta tctatgcaac tgacttttta atcacatgat 240
tatgtattac tatcttcttg tgttttaaca cactttatat ctgatacaca ctttaaattt 300
gattttctaa 310

<210> 43009
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-C4

<400> 43009

agcggctctt gtccgcgcca caagatacca attggtgcgc tgggaatatt cagttacgag 60

gacccgctct agctcatagg gtttttcggg ggggttgat ccatcatttg gctgtagcgc 120
gaatcgcatg gacaacagac tccaatttct aagcaaatat cttttctctg catct 175

<210> 43010
<211> 454
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-021-Q1-K1-C7

<400> 43010

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agaagcgaga ggggagagag agggccaaac aaagatatat cgagaagagg aagaatagaa 120
ggttctgcaa gcagatcatg tatgcttctc gtaaggccag agcagacacg agatggcgag 180
tgaaaggccg ctttgccaag caggcttccg ctagcttcta gtgatctccc tgatctgctt 240
tcacagtcac ttttgtgttg tcctctcgct cgcactttgc tcaatccctc ttcggcttca 300
acaacaaatt tctcttgggt aatttatatt ccataattta catatatatt cctgcttgt 360
cagatgtaat atttntcttt cttttctttc aagaactaaa tgcaattcaa tacgtatgtg 420
gatcggacta tatatcatcg ataaacatga gtta 454

<210> 43011
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-D4

<400> 43011

agaagatcac aaaggctatg aagatggttg cagcatcaaa gctccgggca gttcagacgg 60
ggactgaaaa tgcacgtggc ttgtggcaac cgttcaccgt ctttcttggg gatgctccta 120
gtgttgacgt caagaagaat gtgattgttg ccattacctc tgataaggga ctctgtggtg 180
gtattaattc aacatcagtg aaagttagca gggcccttca caaattgaca tctggtccag 240
aaaaagaaac caagtatgtt atattaggag aaaagggcaa agttcagctg ttgcgtgact 300
caaaggacag cattgaaatg actgcaactg aactgcagaa gaaccctatc aactacacac 360

aggttgccgt gctcgcggat gacatattga aaaatgtgga atatgatgct ctgaggggta 420
 ttttcaacaa gttccaatct gtcatatcgt taa 453

<210> 43012
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E1

<400> 43012

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 cgtcgtcgtt gactttctaa agggatttga tagtgtaaat ttgcctgttt gggccgataa 120
 acaaaccatg cgctcgtatt gcacggcacg gctggtacag tagttataca tgacgagtct 180
 aaaaccgtgc tgcaactgcac gtgtcgatac ggttatcgtg gccgtgtaag gccttggttcg 240
 tttgtgccgg attgggtgggt ctgaacgatt cctaaccgga ttgcttctct aatttataca 300
 aactttgatt agctgg 316

<210> 43013
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-E5

<400> 43013

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 gagctccgtg tggctcccga ggaacacccc gtcctcctca ctgaggcgcc cctgaaccca 120
 aaggctaacc gtgagaagat gaccagatc atgttcgaga cttcaacac ccccgctatg 180
 tacgtcgcca tccaggccgt cctgtctctg tatgccagtg gtcgtaccac aggtatcgtg 240
 ctcgactcgg gagatggtgt cagccacact gtccccatct acgagggata cgccctcccc 300
 cacgccatcc ttcgtctcga cctggctggc cgcgacctca ccgactacct catgaagatc 360
 ctgactgaac gcggctactc cttcaccacc actgctgagc gggaaattgt cagggacatg 420
 aaggagaagc tcgcctacat tgccctggac ta 452

<210> 43014

<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-F8

<400> 43014

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gctttctcaa acaattcgat gagagccttg ttggtcctgt tcctgggtctg catggggcat 120
ggtgagaagg aagagtcaaa gggcatcgat gctaaagcgt tctttcctgg tgggtccttc 180
gacatcacca agttgggtctc ctccgtcaat gtcatgacat acatcacgaa tgctgttcag 240
gaggcatggt catcagcatt cgtcgtcact gttaagcaga caatcctcat acccaagggt 300
gacttccttg tctgacaact caacttcaca gtcccttgca agggctactt gaccatccag 360
gtttatgtca atctgctggc taccactgac ctaatccagt acatggacca tggttaattgg 420
atctagattc tacttgtgga ttacctggtc atcaccttc 459

<210> 43015
<211> 477
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-021-Q1-K1-H4

<400> 43015

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caattaactc acgatcaagc gcaacgtcca catcttaaga ccctcccaag cacacccttg 120
atacttctcg gaccacatag caataccaat tatctaccaa catcatcaac ctacggcatt 180
ataccatcat ctacacctta tacacgtcac tctctgcaca tatagcacgc aatcttgatc 240
atattgctat cattgtccaa acaagccacc gtcaacaaga ccatctcgct atccatgctc 300
acgatatccc tcaactatact ggatatgtaa tcaatactaa tactaaccat gaacatcatg 360
accccgcttt acacattctt gacatgaaat accatctcat tctccatgac actcactatc 420
ctgtcaaagc tggctttgaa gcttatcata catctcacag agaccatcac aatctac 477

<210> 43016
<211> 246
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C3

<400> 43016

atagaagtat ggттаатgaa gcagcatcag atattaaaga aacagcatca gataacgaaa 60

cggtcaggta gaaaccagac acaacggact tcacaaggta atacatgagt tcaacagggc 120

acaatgggtcc tcaaaaagtcc attcatactt gcgacttgac tggttattta ggtgataacg 180

atttggggtc cggcacattc accagtttgg ccagctttta gccttgcttc tagcccatgg 240

catact 246

<210> 43017

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-C5

<400> 43017

gtaacgttca agtgagatat tcaattgttc agatattcaa attctttgaa aaactcagca 60

caaacattca aatgttcaga tattcaaatt cttcgaaaat gttcagactt tagacaaaaa 120

gtaactctaa tatagcagct tcacacacgc acaggggaca actccgaaac tgagtgggca 180

gaagacttaa cacggtcgaa aagctaaagc ct 212

<210> 43018

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-D3

<400> 43018

atggcaccat ttgagaacat tcagtattca tagagaacgc aaaaagtcgc aacctgtat 60

gtttttttgcc tcaaaacggg atcaaggtaa gcaaagtaca aaactatcca gcagcacatg 120

aggctcgaaa agaacaagca tgaaaatttg agcaaaccgt atggaaacac ctctctcctc 180

ttcatacaac actagcacct agaaggttct gggacacc 218

<210> 43019

<211> 146
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-022-Q1-K1-D5

 <400> 43019

 ggcagcttgc ttggaaatgg tcagagaatg aaggtagagag tggttgcacc gattgagaac 60
 gttcactttt catagcgtac gcaaaaagtc gcaaccctgc atgtgttttg gcttaaaacg 120
 ggattaaggt aagcaaagta caaaac 146

<210> 43020
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-022-Q1-K1-F2

 <400> 43020

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 gaggtagact gaacgcagct tgctcgatcg gccgtactcg actggtcgca agaagttctc 120
 ggagggtagc aagggccagt ctagcagctc gatcgtgcgc acctcggacg tcggcggcac 180
 gactgactgg ggctgcacc aatggctacg aatcgttcaa gcatttgtct cgcacgatcg 240
 acacccttga gtggctcatg cgcgcgcacc cggccgtggc acctcgacat gcctgtgtcc 300
 tcgtaatcat ccagagcgct tggccgtcaa tcttcctcgc caaggttca 349

<210> 43021
 <211> 335
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-022-Q1-K1-H10

 <400> 43021

 ttttggtttt ttttttggtg gttttttttt tttttttggt tttttttttt tttttttttt 60
 ttgggcctaa gaataaagcg gttttcatta aagaacatta atcacctgtt gtgcttgtcg 120
 catatgggaa cttaacatcc atcgctcaa attttggaa agaattcacc agattacatg 180
 ttcgttctca aggggtttaca tgagttttaa agaccaattt tcttgtttat gtcgttggca 240

ccaacaattt gggtttttttt caccagagcg ttcccaattt tttttttttt ttacacccaa 300
acgcttcaat ttttattttg tgatgggaac atttt 335

<210> 43022
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-022-Q1-K1-H9

<400> 43022

ccggtcctga attccccgggt cgacgcgcac gcgtccgctc ggcggtgctg ctctgtgctgc 60
tcttgatctt gcacccgcgt gtccatgcct tctacctgcc cggcaccttc atgcacacgt 120
gactcccctg gagagggtgat ctcgccaag gtcaactcgc tcacctctat cgagaccgag 180
ctgcccttca gctactacag cctgtcatac tgcaagcctc tggatggcgt caagaagagt 240
gctgagaacc ttggtgagat cctcatgggg gaccagatct acaactttgc ataccgctgc 300
caatttaatg ccattgagca atgatacctt tgccccacgg a 341

<210> 43023
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-A11

<400> 43023

ccggtcgga attccccgggt cgacgcgcac gcgtcacgat cgcgggtcaat actgcagggg 60
cgcgaccatt tggatttggt cgtgaccata tatgaaactg gattcgctca cgtgaagaca 120
gtaacggcaa ccatatgcta aatagactag cgagactagt cttgggttctt ctacagatcc 180
tcattcgagg caggatcatg gatgtgcacg atctc 215

<210> 43024
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-A5

<400> 43024

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caataagagc cagccagaga aactaataaa actgtagccg tcgccatccg agcgagcaag 120
ccaaccgtcc ccgtccacaa ggcaatccgc cgtegcacgt ccatcaccac cgtaagagcg 180
agatggagat gaagaggata ctcttcgcgc tcctcgtacg tatic 224

<210> 43025
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-B2

<400> 43025

ttcccgggtc gacccactcg tctcgcttct tgtttgttct cctggcatte actctaacca 60
acgacggatg atctctcgat gtcccggcga ttttgatatt cagattcagc ttataagact 120
tcagagaaaag ctatggattt ttaggttgaa agtcaatgtg ctgttgatca ttgtggtgag 180
ggagtagatg tacctagggg gctcggccac gaagtaatag tatgatgggg ct 232

<210> 43026
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-C2

<400> 43026

ttccctggtc gacccactcg tccggtcata attgtgacaa gtgatggcaa gcaagttggc 60
tacttaggaa ttgtccatgc tgaggtgcta tggaaatttg gcattccgga tccctgcact 120
ttcgttgaga tggaccttgt atctctgtcg caatgcactt ataccagtga cttaggaatg 180
cttg 184

<210> 43027
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-D4

<400> 43027

tttttgctga ttgctgaata cagtacatat acttggtttg ctatcgacct tccgcggcaa 60
 ttattctcta caaactcttg gtctcagatt catacaagct tggaaataaa caactaacca 120
 acatataggt aagaaacagg atgggttcaca gtccccgtga aagtccaaga aatacaacag 180
 ccgaggacat ctgcacttta agatctgcga tatcaacgtc atgacctcct ttcaccaagc 240
 cccatcgatc aacctggtgg tcttcttcaa gcctgatcaa ctcaat 286

<210> 43028
 <211> 364
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-023-Q1-K1-E12

<400> 43028
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 gacatgatga ggaagaagat cacgatgcca gcccatctca tgtacgacgg taaggacgac 120
 aacctgttcg agcacttcag cgcggtggcg cagaggctgg gcgtctacac cgccaaagac 180
 tacgccgaca tcctcgagtt cctgggtccag aggtggaaag tcgcggagct cacagggctg 240
 tctggagaag ggagaagggc gcangacttt gtctgtacct tggcgccgag gatcaggcgg 300
 ctggatgata gagctcaagc gagggcgaag caagcaccgg ttattccttt caattgggtt 360
 tatg 364

<210> 43029
 <211> 132
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-F1

<400> 43029
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 cattcattac gacatggacg atgtcgcggt tctatccaca gtgcgcgctc cctctacgct 120
 gtgccggaag gc 132

<210> 43030

<211> 194
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-023-Q1-K1-F10

 <400> 43030

 cgctgcagg taccgatccg gaattccagg gtcgaccac gcgttcgctc atggtggaag 60
 tatgggacca tgatacatTT ggaaaggatt acatatggag gggcatcttg aactgacga 120
 gagctatact acaatgtgaa ttccaagata cttttgtctt gcaagggtgcc aaatcggtaa 180
 aactaaactt gcat 194

<210> 43031
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-023-Q1-K1-G11

 <400> 43031

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 aattgtagaa tctagttaaa aattgggacg gtacaaaatc tcttgtgcat gggagggtcat 120
 accaaaggaa gcttgggtgtc ctaaaggggtg gagcacctcc aacagtggat aaaccaaatc 180
 gactatcacc agcatttaca ggaagaagtt cttgacaaga taaatttcat cgttcaagaa 240
 acatgttcac tatcccatc cgttcacgtg ttcgtggaag gtttccagcc ttcaaatatg 300
 taacttttgc ctttgagaac acgagctatt ccatgaaacc ttttcacccc ttccccctg 360
 ttgtg 365

<210> 43032
 <211> 205
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-023-Q1-K1-G12

 <400> 43032

 gggcgacca cgcgttcgca ctttctcgct ggccataaa tatatatcta tctatcgcca 60
 tcgatcaatt atgagggtcac agaataataa acatgggggg gcaagcctca cggctcgtcc 120

tccctctccgt cgtgggtgctg ttgtacgccg gcctcctccc gcaagctctg ggtaagggtg 180
 tgggaggcat gggacaccgt gggcg 205

<210> 43033
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-023-Q1-K1-G4

<400> 43033

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 atgtgttctt ctactctatt aactacctgg tgttcgatct caggagcctt atcggaccag 120
 tttctgccac actctacctt ggctattccc tgatcatggc ccttgcaatc atgctctcca 180
 ctgggtccat tggtttccctg ctctccttct acttcgtcca ctacctcttc tcgtctgtta 240
 agattgatta gaggtgtgcc ccgctgcttc tttctgcaat agagtcattct gatcatgggt 300
 ataggtaccc tcttagaaat actacactat atatcaaatg gataaaatgg atacatggca 360
 acgcccattg cttttgggtca ttg 383

<210> 43034
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-A11

<400> 43034

accggtcact gaatttccgg atcgaccac tcgttcgcgc acgcgttgct caaagttcac 60
 acctacttta atgctaactg acttatgcct agggggcgc ttaacacgta tgaggacacc 120
 cttctctata acccacaacc catcctaaga actcactttt cctaatacatt acacatgcag 180
 acttcaaccc aaacgactta ctgtctacca gtgaacctga caaaaatata acaataatcct 240
 gaaccttaat gaccagaacg atgcatatta catcatcttt aacatgaatg tgcacaac 298

<210> 43035
 <211> 204
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-F9

<400> 43035

accggtcctt aattccccggg tcgacgcacg cgtacgactg actacaccac cgcgtcgtcg 60
tctaattaaa aaggatacag agatggccct ggggtgtcaa catatggcca ggcgagcgcg 120
attcttcgtc gtcgtttctt ttaatactcg cggatgtata catgacaata tgcaaggtag 180
tggcggaaga gacaactctg actg 204

<210> 43036

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-024-Q1-K1-G10

<400> 43036

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ttcattaact actggaaatt atagagccac atctgttggg ctgtgaacct gcggggaagg 120
actaacgagt cgaatatgac tgccggcggg ctttccgtgc gcacgacgac tacttctctg 180
ctagcagcag tcattcctgtg cctatgcac gtctccctct ccccccgtg agccgctgtc 240
gcgcgggttt cctcgggcgc cagcccatga cgctcgtgat gcgctctgcc ttcgacgtct 300
cgttctgcac cgtcagctgc atggagct 328

<210> 43037

<211> 363

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-025-Q1-K1-A12

<400> 43037

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tatttgtaat ctgaagctga caggaacatt tgagtggatc atggacggat tggttggcct 120
cttgaaagtc cgggtggtga ggggcattaa ccttgccctac cgcgacgcaa gaggcagcga 180
tccgnatgtc gtcctacgac ttggcaagaa gaaacttaag acgagcgtga agaagagatc 240
tgtgaacccc atctggcacg atgagctaac tctgaccgtt acagatccca gcctagctct 300

gaagcttgag gtgtttgaca aggacacgtt cagcatggac gacccgatgt gggacgcgga 360
gat 363

<210> 43038
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-D11

<400> 43038

gggatccaag cctggccacc tgatcctcac cccaatggt gccaccatat ccgacgtgga 60
gatcaaagag cacggtggcg atgacttctc ctttacgctc aaggagggcc cgactggcac 120
ctggacgctc gacaccaagg ccccgctcaa gtacccctt tgcacccgct ttgctgtcaa 180
gtccggcggc taccgcatcg ccgacgacgt catccctgcc gatttcaagg ccgacaccac 240
ctataagacc aactcagca tctaataat ctctggtgat gaattagatt tcaaaagagc 300
tcatctagcg cacatggttag caagacaata ttattttttc tatgggtatt ttgtggaacc 360
aaaccacca agaaataagt gatgctagat gtaccttctg acctaa 406

<210> 43039
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E4

<400> 43039

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tgcgagcgat acatgataaa ctaagaccac cactcagatc accaccatct tattcagatc 180
caaaggaacg gacgcagggg gagtcgacga tgacggaggg agggcgggccg aacagaccag 240
atcagagaga tctaggagag ctgtccgcag tcagcgacct tgaccacctt ggaggtggag 300

<210> 43040
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-025-Q1-K1-E9

<400> 43040

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tgtttgtaca gtatggctct tttctttctt tctttctttc ccctttcatt cattaagctc 180
tgtgatgtag ctgcccgtac tgttgattca tgaaatcatg ctagagattt tttcctggca 240
gtaagtgcgt gcctgtaaaa ctgtcgaact atttggacga aagttgtaca ctgcagtatg 300
atgtaaccat caaaatctcc cctaaaaaaaa aaaaaaaaaa ttttaataata tttttatata 360
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<210> 43041

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A11

<400> 43041

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tccttaatct ggacatcaaa tttgaattca ctgtccgat ctatattacc tcggaactta 180
ttaaacctg acatgacca atttaa 206

<210> 43042

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-A2

<400> 43042

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agaaccgtgg catcaccagc atcaagttca cctcggccac tttcgctgc gcgacaacca 180
acctgtccc ggcgtgtacc ttcgtcatcg ccctcgtctt tcgctacgag aagttcgcca 240

tgcgagcct gtccagccag gccagggtcg ccgggaccct gcttggcgtc ggcggggcca 300
 tgctgtcac cttctacaag ggcgtcgaca tcacgccctg gcacagcaac ctcaacctcg 360
 tcggcacgct gaaccaagaa caccatcaca ccatcatcaa caacaacaac tacgccatgg 420
 gg 422

<210> 43043
 <211> 214
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B11

<400> 43043

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 atctgataat atagtgcac caaacttgaa ttgactggct gaggctttac aactacgcga 180
 ctgggaaaac gctgacaata ttcaaattaa taaa 214

<210> 43044
 <211> 148
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-B12

<400> 43044

aaaaaacata tgacatcgca ttcgtctaata tttaaataaa aaaaaaaaaa acaataaaaag 60
 gggggggggc tcctgtctag aggggtccaag cttacctacc cgtgcatacc acgtcatatc 120
 tcttatatag tgtcaccaaa cttgaatt 148

<210> 43045
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-C7

<400> 43045

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ggttcttcct cgctccgtg ggggtccgtt ccgtcccgcg cgccgcgcgc gtcgcattca 120
 gggatggaga tgaagaacat cgctgcgcc agcctcgctg ccgactcggc ggtcaccgtg 180
 gcactcgcgc cggaagcttc tcatccagaa ccgaccaggg gatcctcaac cgtcgcgcgc 240
 aa 242

<210> 43046
 <211> 56
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-D4

<400> 43046

taccggtccg gaattcccg gtcgaccaag, ccttccgctt tctttttttt ttggca 56

<210> 43047
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-E7

<400> 43047

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 ggaaaatgca gatgctgctg ctcaggctgt tcaagagttg aatggcaaga tattcaatga 120
 taagggaactg tatgttggaa gagcacagaa gaagtctgaa agagagatgg agttgaagga 180
 gaaatttgaa aagaatgttc aagaggtagc tgagaagttc caaacacaa acttgtattt 240
 gaagaactta gaggagaaca ttgatgatga gaaattgcgt gaactctttg ctgagtatgg 300
 caatattac 309

<210> 43048
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F1

<400> 43048

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taattcagaa catgtaaaaa aagcacgaca tgtgcataga gaattgctga accagcaaag 120
atcattcatc aacggcatgt cactttgcat tgtggccact tcaatctggt tcaagtttgg 180
tcagatcttt tagtgtgtta acgcttatat tacttacaac aaaagataag cccacgaatc 240
agtagatcga 250

<210> 43049
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-F4

<400> 43049

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tatgctcccg ttgttgcatc tcttgaacgg attggagtgt ctttgcgtae tccctcagtc 120
tagagtcaca atatacttat acatgttggt aaggaataag gatggagggg gatctttct 179

<210> 43050
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-026-Q1-K1-H7

<400> 43050

gaaaatacga acggggccatc gtgtcatggt gctaccacgt agataaactc tggcttgctc 60
gtacttttca gatgcatggt tggacaacac cttttacttc cagcaaaaaa tacataatat 120
gcatgtactc ctcatTTTTT ccgtatagta atataaacia attttc 166

<210> 43051
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A2

<400> 43051

gtttttcttg tgctttctgg ggggaagaaa gcctagcgcc gtgcttgacg aagtcgtgct 60
agcgcttgca cttgcagcgg cgggtgtacga tttggttggg gccggagcgt gaagtctcaa 120

gtgatcctgc aactgtcctg tcagttaaac tcaaagatgt tggaaattgt agtacgatgc 180
 ggcccctgcg agttttgtag agttgaccct ctttcattgt ttttttttaa attcaaata 240
 agtttcatta aaaaatagaa ctgtaaaaac tttacaaagc caataaatga ttaaagatta 300
 aaaatctggt acagatagtt gaagagcaat aattctgtac 340

<210> 43052
 <211> 462
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-027-Q1-K1-A4

<400> 43052

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 tcatgtcgct tgcgcagggg gttgtttact ggcaacctcc tgagtcagca atggctaagg 180
 tcgaaaaaat aattagggaa ccaacgctta gtaaataatgg ctctgatgat ggtcttcccg 240
 agcttcgaga agcacttctt gaaaagttac gcagagagaa taagcttact aagtcattcag 300
 ttatgggtcac tgctgggtgca aatcaagctt ttgtgaactt ggctctcact ctttgcgatg 360
 ctggtgattc tgntgtcatg tttgcaccat attatttcaa tgcctacatg tcattccaga 420
 tgacaggtgt tactgacata ttagttgggtg gttctgatca ca 462

<210> 43053
 <211> 466
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-A7

<400> 43053

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 gtggtttgag tgggtggggc ggctcttcga aacgccccgc cgcggcgatg ggatgcttcc 120
 attccacggc caagcggcag catcctgggt acgaggaccc cgtggacctc gcctcccaga 180
 cctccttcag tgttagttag gttgaggctc tattcgagct gttcaagagc ataagtgggt 240

cagtgattga cgatggcctg atcaacaagg aagaattcca gtttagcatta ttttaagaatc 300
agaggaaaga aaatcttttc gctaategga tatttgacct tttcgatgtc aagaaaaggg 360
gtgccattga ttttggtgac tttgtccgag ctctaaatgt gtttcatcca aatatcccaa 420
tggatgaaaa aattgatttc tcgttcaagc tatatgatat ggatag 466

<210> 43054
<211> 210
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C12

<400> 43054

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atgggtctat cggatctagt ttgacagtat agtctatattt atttagagat aaaaatcgct 120
tgtttaagaa taagtaaagc tctttattta agaagagggtg tttgagaatt aagacggaat 180
gaccgttttc ttcaaaaaaa aaaataaaaa 210

<210> 43055
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C2

<400> 43055

acgcctgcag taccgtccga attcccgtc gaccacgcgt ccgaaaaaaa aaaaaaaat 60
gaaaaaaaaa aaaaaaaaaa aaaaaaaaag gacaaaacat actggaggat gcaagcttac 120
taactcgggc atgcaatctc tataactatt ctatactgtc acctaaattc tatta 175

<210> 43056
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-027-Q1-K1-C3

<400> 43056

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atgctactat cgatatacaa accgagagca cagtacatat ggtcacacta ctacaggtgc 120
acgcatgtat tgccgcttat aaatgtggga aaaaaaaaga taaccggttt ctctagcaat 180
ggaaagaag 189

<210> 43057
<211> 264
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-027-Q1-K1-D12
<400> 43057

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catagaggta tactacttgt cattgagaca gtggtaccta cacggcgggt gagcagattt 120
cgccggctgc cctcgtgatc atgcgatcaa cctactatgg gcgagctgtg acctatagcg 180
acagcgaata gtagaccatg agagttccgg tgctatcctg cacacgttca acgcctgcct 240
tcaaaaatgc atagatgtga gtta 264

<210> 43058
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-027-Q1-K1-F2
<400> 43058

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gtttctttgt gacaagaatc aaaacaatgg gcgaaataaa atgactttct cctccaatag 120
aaggtcaccg caccacctat ccaatatatt ccgaaactaa ctaaactgtt cagcttgctt 180
tttatcccc caacgttaga ctacgccacg gacccaaaaa aaaaggagac tagatcccta 240
ccggagctaa tccaagtaga agagtgtcac gatcttccga aggttcatgg cctcctggca 300
tgtttccatc agcagtttgc tgtcgtggaa cgcgaagcag attacctgtt ggaccttaga 360
gatgatgtcc atattgcata acctgctagc ctcaattagt ggcaaatgat catactgtgg 420
tttctcgagt aaagtt 436

<210> 43059

<211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-027-Q1-K1-G6

 <400> 43059

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 atgctatcgg taaccaactg cgctatccaa attgccattc acactaatac tccttgatca 180
 ctctgtatct attctcogag gctacccaag aaattaccca ccatcaaaat acaagggttc 240
 atctcgagcg tcttatattg aaccagcccc atccttgaga ggtacttatt actttgatcg 300
 aattgagtat acaatccagt tacaaccttt tggagccggt ctcttacaca ct 352

<210> 43060
 <211> 468
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-027-Q1-K1-G8

 <400> 43060

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 aagcaataaa aaaaaaaagg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggcga tcagagcgag gcacgggaag 180
 ggcaacgaca gagccatgag ttacaaaaag gtcccggagt cttatccgcc accagggtac 240
 tggaagccgt accaaccgcc caaggttcaa ccgaaggggc cttactacce gtcgccgaat 300
 taatgaattc tggggtagca gggttacttt aacgacggac agaaacccta cggttatccg 360
 ccgccgaagg gtgggtatta caataagggt aacaaccacc ataacgacca ccatgaccat 420
 aatcatggta actatcacta acaccacgaa tatgatgact gatgcctt 468

<210> 43061
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-027-Q1-K1-H2

<400> 43061

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gaatttagca gtcgtggttg acacctgcga gcaaaggctg catggggttg tgggcagtat 180

gcccataatca acttttcaga cccgaacaat tgcgtgcagg ctatgcactg tatagtttca 240

ggaatgcatg atccagatct tactgcgagg gttgattagg tctttgcact tegtgcattt 300

gctgaagcct gcaaagattt aaatgagatt cgacctatac ttactcagct ccttgatgaa 360

ttttttacgc tgatgaatga ggtcgagaat gaggatcttg tgttcaccct agaaaccatt 420

gctgacaaat cttgtgaaga gatggcacct tatgca 456

<210> 43062

<211> 156

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-A3

<400> 43062

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gaatccgact tatctagaat gatatacaggc ttgccaatcc ttatggatag aactggattg 120

atccgcatgg gaccatgata ttcatagacg ccaactg 156

<210> 43063

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-B5

<400> 43063

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tcacgtggat aactctggtc atcaccggca agggaaacct tgacgggcag ggcccagctg 120

agtggagcaa gaactcctgc accaagaagt acgactgcaa gatacttacc aactcgctgg 180

tgatggactt cgtaacaac ggggaggagt tcggggtcac gctgctcaac tccaagttct 240

tccacatgaa catgtaccgg tgcaaggaca tgctgatcaa ggacgtgacc gtgacggcgc 300

tccacgacag ctccaactct tattgcattc acatggg

337

<210> 43064
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-C2

<400> 43064

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ccctccatta aaactaattg acataccggg cgttgaccaa cggagcacgg atgaatcaat 180
aagcaactat gctgcacgca acgatgcaat tctactagtt atcattccag ctcttcaagc 240
gcccgatgtg gcatcttctc gagctctaag gattgccaga gaattggact cagaaggtag 300
tagaaccatt ggtgttctaa gcaaaatcga tcaagcttct ggagaacaga aagccctggg 360
tgctgttc 368

<210> 43065
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-E2

<400> 43065

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tcgtctccca gtcaactagg gattgtggag gatcgtcgtc gccatatggt gtaatatctt 180
ttagttatct tgtacagaat ttctattaag taataaagat atgacattga tttctgtacc 240
aaaaa 245

<210> 43066
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-F4

<400> 43066

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ttggttgctt cgtgccgtgg cctgggaagt cgatgactgc tcatcatggt aggaggcccc 180

gaccgaccgt gcaaccgtgt gccgacgctg tggctgtgag ccaatgaaat cacgggtcaag 240

aacaggtagc acaggatgag ggcgttgagg gatgctgtga tgagttcgtg agtgggtctag 300

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<210> 43067

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-G3

<400> 43067

ttcggcgccg taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gaaagaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaactaaaa aaaaaaaaaa aaaaaaaaaa aggggcgtcc cttataaggg ataaaatttt 180

acgcaccgtt cttttcaaag taaaagtttt ctaaaagggt aactaaaatt aaaataatgg 240

gccgtgtttt taaaatcctt attatctgga aa 272

<210> 43068

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-G4

<400> 43068

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aatggattaa ggacatc 77

<210> 43069

<211> 89

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H3

<400> 43069

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attatggggtc cttgtatgct ctggaaaaa 89

<210> 43070

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-028-Q1-K1-H6

<400> 43070

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cctattatttt ctc 73

<210> 43071

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-A8

<400> 43071

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ttctgcgatg tcaggacaaa atcttcagtt attcatgttt ttccatttaa ctgggagaag 180

aaacgtggcg ctgttgcagt acagtttgat gatggtgttc acatgcactg tttaggtgca 240

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atgagtgtg ataagcaca tgaat 325

<210> 43072

<211> 290

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-029-Q1-K1-B5

<400> 43072

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cattttaagg aacggcgatc atttgtctga ttttattaaa ataacgaatc cattctcttg 120
acatgggtcgt taagagtcac aggttactct gaacgaaaat gggaaattaa cccaggggtg 180
tcaaagggtgg ttttggtgag gtttcagaat gacacttcgt ttcttgagac tgtggggccac 240
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<210> 43073
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-B9

<400> 43073
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atatttagaa atcgatataa atcctttcgt gatattgttc cttgcacgga gcgttatcat 180
aatatatgct tcacgtgctc ac 202

<210> 43074
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-C2

<400> 43074
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acaatcccaa gtgtgaagag gcacctggat gtggcgagtg gaagaggcca atgaagcaga 180
atcctgctta caagggctag tggcatgcac ctattgttga caacgctaac tacaagggaa 240
tctggaagcc tcatgagatc cccaaccctt agtactttga gcttgacaag cctgactttg 300
atccaattgc tggatttggg attgaga 327

<210> 43075
<211> 361

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-029-Q1-K1-C4
 <400> 43075
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 tcattggact gccacaatca ttattcttat cagggtcatgc tacctgaagc aattgcaata 120
 gttatggcac ctactgacac aagtaaacad gttatatttc atctcacgga tccaggtggc 180
 atgggcgtga tccatgattg tcaagagaga gggttccatc ctcacaaggc accacttgat 240
 gggacgccaa tatatgagca gtgctcccat gtgtacatgg acaccgatat aaatttcgat 300
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 t 361

<210> 43076
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-029-Q1-K1-C5
 <400> 43076
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 gggtagcggc agaggaggac tgggtcgggg atagcgggta agttcctaag gaagctgaca 120
 gaagaggaga gggcgtgcat cgctcaatca gcaaccaact agatcaacct agcccagggg 180
 catgcagccg agaacgccaa gaagcttcga cgagagttag caggagaaga ggctgaggaa 240
 gaagtacgag cacaagacg aggagtgcga gcgcgggcta ggggtgagcc gcgagatccc 300
 gccctagcac atccttcccg acaacatcct cccacac 337

<210> 43077
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-029-Q1-K1-C9
 <400> 43077
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attctgatgg gttccttcag ggacattaaa tggaggccta tatacgaggt ctgataccca 120
 acttggcaca gttacgtgac atgccaactg cctttgttca aatgtattgt cgtattgctg 180
 cacacaaatt cttcttcttt tgcgatcctc atagacgagg aaaagcttgc attaagaaag 240
 ttttgcttaa taattgtctc caggaactca tggagcttta ccaggaaagg taataaaaag 300
 tcacggacac aaagcaagcc gaaaacttgt tctctttgac ttctgctcaa cgcatatgtg 360
 acatgtttct tgctcttgat aaagatacta atgggacatt aagcaagcat t 411

<210> 43078

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D3

<400> 43078

aaaaaacaag aagcaagttg tttggctcctg attgcagggt cgattgggtga gctgatgtat 60
 atcggagtaa tgtaacgaca gaaaaaagaa gtaactacta cagaaactat ttatagaagc 120
 ggtagattca cttcataggc tatagcaact gtctttacca agggatatgta gaaaatgatt 180
 tattaaaaat aatagtattt attaaat 207

<210> 43079

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-D4

<400> 43079

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 ttaccgatga agatgaaggc aatgggtttg aacgcttgaa ggagatcgat cctatggctg 180
 cgcagaggat ccatccaaac gaccatagaa aaatcaaacg ctacctcgag ttgtatgcaa 240
 ccgcgggtgc cctaccacgc gagctgttcc aaggagaggc ctctgagaaa tgggtgtcggc 300
 ctagtaactc cagactctac t 321

<210> 43080
<211> 484
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-E9

<400> 43080

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gcatggggccc tgggccaagt atatgaatgt agcgaggtgg tttaatcaca ttgatgcact 120
tctgaggctg agtggagtta ccgcataggg cctaggtggt aaggttgagc catctgcagt 180
tccttcagct tcaattcttg atgttgctga tggacaggcc ccagctgctg acgaggatga 240
cgatgatgat gttgacctca ttggagagga gactgaagag gagaagaagg ctgctgaaga 300
acgtgctgct gctgccaaagg cttgtggcaa gaagaaagaa tctgggaaat cgtcagtttt 360
acttgatgtg aagccatggg acgatgagac tgacatggtc aagctcgatg aagctgggat 420
gagtgtccag atggaaggac tgctttgggg cgcattcaag cttgtcccat ttggatatgg 480
catc 484

<210> 43081
<211> 499
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-F9

<400> 43081

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cattctcgct tgcaatcact tctgcgagcc tgcccagggg ttactttctc ctgttatcgc 120
accgaaagcg cggcacgacg acagcagcct ggacctgatt ctcgcccatg gaagcggcag 180
gctgagactg ttttgcttct ttgttgcta tcagctctgc tggcatcttc tacttcccct 240
acgtggaata tgtcaagata aaagaagtga atgttaggcc agttggcagt acccacagtg 300
gttggtggcgt cgactgtgag cttcttgatg gagagcgagg tgctgaatgg cagtgtctgc 360
tgctttcagc acaaggcatg ctgcttgccc aggatcccgg tgctttcaac tagttagggc 420
tcgttcggtt agctctcaat ccattgttga tttgagttag attggatgaa tttgaatccc 480
aaacaatata aacttaatt 499

<210> 43082
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-G3

<400> 43082

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ctcatgctat gaggtgagat gcatggtaaa acctgagtgc tcgggcaatc cagatacgg 120
gtacatcact gacatgaact tcgagcctat cgggtccctac cacttcgact tgagcggcaa 180
ggccttcggc tccctggcaa agcccgggct caacgacaag ctttgccact gcggcatcat 240
ggacgtcgag ttcagaaggg tgcggtgcaa gtaccccgtc gggcagaaga ttgtgttcca 300
catcgagaag ggctgcaacc ccaactacct ggccgtgctt gtgaa 345

<210> 43083
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-029-Q1-K1-H3

<400> 43083

aattttctggg tcgacccacg cgttcggccg tgtttgctct agatagctcc aatctcagg 60
gcctagtgat gctgtctttg gtttgatgtt caataataac agatgcagct gttatatata 120
ttgttcgatc ttacgcgagc ttgtggctgt tcgatttaag tggatctggc attaccgaca 180
acgggcttgg gatgatcagc aaagcattcc ctgacaccct atcacgcctg ctctgggctg 240
tgtgccctaa catcacgtcg tctgggggtcc acgtgtctgc agc 283

<210> 43084
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-D3

<400> 43084

cccacgcgtc cgtaccatcc cgacaaagat ggagcatgtc ttctacactt actccgacaa 60

ccttcccggc gtgctcatcc aggtgttcga aggtgagtgg gccagtacca aagacaacaa 120
tctgctcgtc aagttcgagc tttctggcat cccttcggcg cccaagggcg tccccagat 180
caccgtgttg ttttacatgg atgctaacgg tattcttaac gtgttatctg aggacaagac 240
ctccggtcag aat 253

<210> 43085
<211> 376
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-030-Q1-K1-E10
<400> 43085

ggtcgaccca cgcgttcgag gacgcgtggg cggacgcgtg ttttgtgttt ctaatcagag 60
cttttctcct gaatatgagc atggaaatga catttctcct aagaatcatg ttgggactaa 120
tacgatgatg gggttacgga atggcttatt tacttgtttg atcggtgctg ctattagtgc 180
aaattttaca ttgtcaaata caaatatttg ctatggctctt attggcgaag aaattttacc 240
agaactagat tcttcaaact cctttataaa aattatttca tcttcattaa tgtcaatatt 300
ggactcgttt tctactctac aaaggatgtc tgtgtcaact ggtagcgta atatttggca 360
ttcagttaaa atattt 376

<210> 43086
<211> 287
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-030-Q1-K1-E12
<400> 43086

cggaattccc gggncgaccc acgcgtacga aggatgcaaa ccagcgcgtg tttgtgcctt 60
tacatttaga gctggtgctt tggatcaggg gaagcaaaat gcagcgaagg ccaagattcc 120
cttttacgga agttacatgg aatctgatcc agtgaaaatt gctgttgagg gtgtggagag 180
gttcaagaaa gaaaactgtg atctcatcat tgtggatata aggggaaggc acaacaaga 240
agcagcactc tttgaataaa aggcggaagt tgtggaagca acaaaac 287

<210> 43087
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-E2

<400> 43087

taggtatcaa agctaaagaa gctatggata tgggagagct tgtttcagat aacttggttg 60
 tggggattat tgatgaagct atgaagaaac cgtcatgccca gaaaggtttc attcttgatg 120
 gcttccctag aactgtcact caagcacaga agcttgatga gatggttgga aagcaagggtg 180
 ctaatgttga caaggtccta aactttgcaa ttgatgatgc tatattggaa gaacggatta 240
 ctggccgttg gatccaccca cccaggggga ggacttacca tacaaaaatt gcaccttcaa 300
 agtttccaag agttgattga tgtaacgtgg agagccattg attcaaaagg aggatagaca 360
 cttgccgagg tttttaatgt caaaggtttg aagcctttca caaacaact gagccctggg 420
 attga 425

<210> 43088
 <211> 279
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-030-Q1-K1-E7

<400> 43088

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 gaatgccatc aaacgccgtg gagaagcgga cgcacgcaag atggagagga ttccgaaacc 120
 taaggaaggc gaggggtgtga aacgtctgaa gctggaaaca ggagcgggag cagcaattag 180
 ggtcttgga ccatgccatg atatcaacgg accaaggggc cgctgcctac caaggaaggc 240
 gacatgagat tggcagctag gacagacgga actatatac 279

<210> 43089
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-F7

<400> 43089

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acgtgttcgc gttcgtggtc acccaccggg gcgcggggcg cgccgtgtgc gggagcgggt 120

acagggagta ccgactgggg gactactccg gctggctgca ggcgcgatc gccgagccgg 180

agacgtggcg gcgcgtcgag agctgcctct ctgaggcgcg cgtgtgcggc ggccgggaat 240

tctacaggca acacctctcg ccaatccagt ccggttgctg caagccgtcg acgtggtgca 300

ggttccggta cgtgaacgcc acgttctggg aggcaccgag atcggggctg tctgcggcgg 360

cgggtcaacga cggtgactgc cgggcatgga gcaacgacca gcaagtgttt tgcttcgaat 420

gcgacacgtg caaagggcgg cttgctggag accgcc 456

<210> 43090

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-031-Q1-K1-G7

<400> 43090

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aaccccaggg agcaggacag gcgcgacgct cggcgagatg taccgagaac tgccgctcgc 120

tctccaacat gatctgatcg atcttctttt tccacggacg acaacagata gccgggcgtt 180

ttggggcctc gcatcgtttg gcgcgctgc ttaacggctg catgcccatt cccgcgagcg 240

cgtctttgcg cgacaataac tgatgagtta attttggttt tgctttgacc atttctataa 300

ttttattttt tgtatagaag cgctaaattt gggctcttga aa 342

<210> 43091

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-C10

<400> 43091

tgcagtaccg gtccggaatt ccgttcgatc caagcgttcg gtatactgtt gctgttggag 60

tcatgaagag cgtggagaag aaggacccat ctggtgcaa ggtgaccaag gctgtagtaa 120

agaagaaatg atgcgtcctc tcatgtgccc ttgtttatatt tgtacttgtg cccgtataact 180
 tggatctggt aaaatctatt tgttgt 206

<210> 43092
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-C4

<400> 43092

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 tatgtcgcca agattctcca atgatcaagt tctctcagtc tactcaccag cacacaaatc 120
 agcatttcta aacaagtttc atcatcagca aaagggccta ctgtcgctg tcaataactaa 180
 caggatatac tcgcctaggg gtcttgatcc atcagttctc cattctccat ttggtgggtat 240
 gtgtcctcgg tcccctcgga ctatggagcc agcatctccc ttaactgtct gtgtcggggc 300
 tactgctacg cagcgtgata tgttggatca gttctcttc 339

<210> 43093
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-D4

<400> 43093

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 gcgtctacct catccattcc tctgctgatg ccggtgctag ctgccctgag ggtggatggt 120
 tcggtgcacc atcggcgggt accttccacg tcgggcaggg cttcaagccc ggccacttgg 180
 tctcacccc caacgttgtc accatctcta acatggagat caaggatcac cgggggggacg 240
 actgcccctt tacactcaaa gcgggagcga ctgtgacttg gacgctcgac atccagaccc 300
 cggatcatgta cctgatctgc aaccgcttat gtgccaagtt cggttgctac cgca 354

<210> 43094
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-G5

<400> 43094

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tggtatacaa gggtatgctt ccgtatgaca gaattccagc ttatgttgga acacttttaa 120
ctttgtgccg caatcaacac tgcacatctc atttaaaaaa cgaaggccta atacatgtgg 180
aaattaaact aaaatctgaa agcttcacaa aatgttcgta tccgctcttc tagcatactt 240
tggtgttgta aaccacacct gtggttacct taactagaaa caaggaacta acctgcatat 300
taat 304

<210> 43095

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-032-Q1-K1-H4

<400> 43095

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cgcaatataa aattaccgat cgggacttaa ctacacacgc aagcaattag ttcatgcgct 120
tattaggttg tgccactggc caccactaca ctacattaca ctagcacaag caagcagcta 180
cacatacttg tccatatcac ataaacgaaa cagcatatat aagaagatgt cccaacatct 240
ttgcaccacg cgcgagatca ggggccttgc aggccgaact cttcagggcg cggcccaccg 300
gttttttttt cccctttttt tttccccccc cccttttttt 340

<210> 43096

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-A11

<400> 43096

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gggtgttataa cggcctttta ggggccttgt gctgtgcttg gttggaatgc ttgcattgct 120
tttgtgccgt agaaatatgc tgtcttgtgt taagggtgtc gaacatcttc actgatcact 180

attgcattga ccaaaatatt g

201

<210> 43097

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C1

<400> 43097

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tctgctcgcc acaaggcctg caactgtctg ttgaaatgcc gtgtccagcg ggagcgagag 120
gctctgcgcg acaacatgaa ggcattgcga atcctgatat ccggaggctg ctttaagatgg 180
gcggtcttaa cctcatttgg gggctcatgt acgaggagaa ccgagagagg ctcatgatct 240
tcctcctgaa cttaatgcga aacggcaaga cctactcgga gcacagcccg ctaaagagcg 300
ttagcgcatg aacgcagcta cagaatgaag cgccaaggtc ataccctgta cagattcagc 360
agctgacagg cgctaccgtc aatagtattc gtggcaaaag gcttagatcg ccgtcaagaa 420
attgtgagtc atctggatga cgtgcttaat ttcc 454

<210> 43098

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-C2

<400> 43098

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gtggctaccg catcgccgac gacgtcatcc cctccaattt caaggccggc accacctaca 120
agaccaccct cagcatctga ttagcctctt atgacgaata atattttgag agagctcatc 180
tggaccatgt gccagcgagc taatatTTaa tttttttctt tggttatatt gaagcaccac 240
atgagccaag aaaaaagtta tgctacatgt cccttctcgc gcaaaaca 288

<210> 43099

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-D2

<400> 43099

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ataagccttc tgattttctac ggatcgatcc cttgataatg acatgggtgg ttcgagccat 120
cgtccatgat ggccaagtgc gaccc 145

<210> 43100

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-F1

<400> 43100

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tacgtgtgcc atgggttact atcggcccga cttcaatggc ttccagttct ttatcaccac 120
cgtatactaa aaccggttgc ccaagaagct gtacggggcgc cacgtgggtg tcggcaaggt 180
ggtgaaaggg attgacgtcg tgcgcaagat cgaagcctag ggccagctca ccggcgtgcc 240
caaggccaag gtcgtcatat ccaacagcgg tcagctgaca gcgcctgcct ccgccggcca 300
tcgtgacctg tgatcgatga cgaggagaac gacttac 337

<210> 43101

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G1

<400> 43101

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acgtatcggc cacgagattg atctcatgat gtcagacaaa caccctgtta aagcaatgtg 180
tgacatccgc gatttggggc tattttatgt tgtattttct tttcctgaaa aatccaaccc 240
tcctgttttt gacaagtgtg attggcagtg ggtttcacat attggagcca cttgggatct 300
tgcataatct attggcaggt ggggtgggtcaa caatgggtct taactcaagt cgcaagatga 360

gccaagaaag ctgtacttgg atagtgcatt attcaacccc cttcgaagta tggctctacct 420
 ggacaaaag 429

<210> 43102
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-G2

<400> 43102

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 aggagagcag tgagggccgc cgctttgggg acttcttcaa caacgccata tgggctcggg 120
 aatcaggccg gtgaccttcg cggggtcgac gtggattcgt ctgggaccgc gacgggtgag 180
 tccgagaact ggggcaccgc taatcgctcg ccggacgtct ggcgcgctca ccaaataact 240
 gttcgccgtg gtccggtctc tgcgccaccc gattgccgac gagcaagcca ccgtggaatc 300
 tgaggttcag caagtagaga tagctgagca ggagctcatt gaatgagaag aacagggtgg 360
 cgaagaggag tcgcctaaca ctgaggagtt cgatctgac taagtggcgt ttctcagttg 420
 acttt 425

<210> 43103
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-033-Q1-K1-H2

<400> 43103

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 ctggaccttc gatgatgtcc aggtgaacga catctcgctg aacgactacc tcgctgtgaa 180
 cgcgacgaag cagcgatgt acctgccgca caccgcgggg cgctactcca agaagcgggt 240
 ccgcaaggcg cagtggccga tcgttgagcg cttacaaac tccctcatga tgcacgggcg 300
 caacaacggc aagaaggta tggctggccc catcaataag cctaccctgg agatcattca 360
 cctggttacc gatgccaacc ccatccaggt cgtcggcgac gccaacatta a 411

<210> 43104
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-A10

<400> 43104

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gcagtgccgt ccaggccacg gcatgagcgt cggcagcttg ggtcgctact ccagcgaggg 120
agacgtgaca cgggggcacg ttcgcgacat gaccttcacg ggcacatga acggcgttcg 180
catcaagaca tgggagaact ccccttaca tagcaacgcc tctcacatgg tcttagagaa 240
catgggtcatg agggactgtc ataaccccat ttatcataaa tcagaagtac tgagcctact 300
acaactgcga ggcgaagtac atggccgggg tgactttcaa tgacattgac ttcaagaaca 360
tcaaggga 369

<210> 43105
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-034-Q1-K1-A4

<400> 43105

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ggctttatct cttttgtacc ggggagtggc ttgcatctat gttatatact ggtgccatag 120
taattttcag aagcacagtg aagagttttt attattttca tttttgttgt actctgacat 180
gtgagcccta taagtatggc aattttggca cggttttgcc gttgaaaaaa aaaaaaaaaa 240
aaaaaaaaaa agagggtggg aaatg 265

<210> 43106
<211> 307
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-034-Q1-K1-C5

<400> 43106

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 gccccacaaa tcttgtaaac tttaatgttg acaatgttgg ggtggctaata ctacttgggg 120
 gtgggttgca caantttctt tgtggttccg tggcggttgcg ttctagagaa atatgtaatg 180
 cttgttcggg tatgacatca aaaggngcgg tagaagtgcg atatgtatcg ctaaaaattg 240
 ctaccttttc attcacattt cacactgggtt atacctgtca aagatctatg cccttctttt 300
 ctattga 307

<210> 43107
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-034-Q1-K1-G4
 <400> 43107

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 cctcaacacg gatgtgatcc acatgggcna cttattcggg atcactatca ccaacaccgg 120
 cattggcgtc ntctactact gcatcttcat cggccccggg accttcaatg tgaacatcac 180
 cggcgtgacc tgcggtcctg tgcactgtat catcatcttc tgtctanggc ggtacaagga 240
 cgagaaggac gtcacggaca tcaacgtcaa ggattgcact cttaatgana cgggtgtgcnn 300
 cgnnccggggc aatgcgtact atgacgccgg ctccgtgctc accgtcttca acatccacta 360
 cgagaatatc aagatggagg actcagccaa ccccatcttc atcgacatga agtactgccc 420
 caacaag 427

<210> 43108
 <211> 479
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-035-Q1-K1-A7
 <400> 43108

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 gaccaaggat ttggtgatta agggggcaga ctggatagtt aatgaaatga agaaatcagg 120

tcttcgggggt cgtggagggtg caggttttcc ctctggtctg aaatggtcct ttatgccccaa 180
 ggtttctgat ggacgccctt cttatcttgt tgttaatgct gatgagagtg agcctggaac 240
 ttgcaaagat agagaaatca tgcgccaaga cccccacaag cttctggaag gatgccttat 300
 tgctggagtt ggaatgaggg catcagctgc ttacatctac attcgagggtg aatacgtgaa 360
 tgagcgtctc aacctcgaga gagctcggca ggaagcatat gcacctggac ttttcggtaa 420
 gaatgcttgt ggatctgggt atgattttga tgtgcatatt cattttgggt ctggtgcgt 479

<210> 43109
 <211> 514
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-A8

<400> 43109

gcagctaccg gtccgtaatt cccgggtcgc acccacgcgt ccgcatgtcg ttgtcccgcc 60
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 cggacaggcc cagcgtctcg tccactctga cccttcgggc ttcatctgcc gcaccggagc 180
 caccacacct tcgcccacca cacgggagac gctccatcgc tgctatggtg ggccctacca 240
 tcgagaggac ccaggcacgg ttgcaggctt gcagcgggca gacaacacgg gccaccgcat 300
 ggccgtcatc gtcgtacca ccacccgatg gctgcgcacg gtctccagat ctgaataggg 360
 aggcgacca acggctgcgc acgatctcca gatctaaaca ggaagcggca tggggggcgt 420
 tggctggcac tggtgccctg cttcgacca atgggcttcg tctaccgtat gggagccgca 480
 tgggaaccga tccaccttta ccatttgcgt ggga 514

<210> 43110
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-B1

<400> 43110

accggtccgg aattcccgtg tgtcgacca cgctccgcg cttagaaga cggccaacgg 60
 cgtccgcac aaggcgtatg aggacgccgc ctccgtgctc accggctcca agatccacta 120

tgagaatatc aagatggagg actcgggcta ccccatcatc atcgacatga agtactgccc 180
 caacaagtta tgcaccgcca atggtgccta caaggtcacc gtcaaggacg tcaccttcaa 240
 gaacatcacc ggcaccttct ccaccccgga ggccgtcaac ctgctctgct ctgccaagat 300
 cccatgcacc ggcgtcacca tggacgacgt caacatcaag ta 342

<210> 43111

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-B10

<400> 43111

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 aacctgtcgg tgcccgatga cagcctcgac gctgatggca tacacatggg cggatcatac 120
 gggatcacca tgaccaaacac cgtcatcggc agctcgcgac tactgcatcc ccatcggccc 180
 gaaaacctcc atggtgaaca tcaccgtctt gacctgcggc cctggcacac agcatcac 238

<210> 43112

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-B12

<400> 43112

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 ctggtactgc ggctcccttc tggccgtggc catcgcgctg ttctgttccg tgtccctcgg 180
 cgtgcgcgcc gccggcgccg gcgcggcgt cgacatcaag gtgtcgtgtg cagcgacgcc 240
 ggacccggac gtgtgcctac gcgcgctcca ggccgacagc gactccaaga ccccgcgga 300
 cctggcggag gcggcgctcc gcgcggcgac gaccgcgggc ggcgcgggcg gcgactacgc 360
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<210> 43113

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C11

<400> 43113

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aaaaccctct tttaaaaaag gtgcctcacg attgagcact gaacatcaac ccctagtcca 120
cctgtctatg cacaccctta cactaatcaa cttctcatat acattaaacc ttattgctaa 180
atctctaaaa gatctcctgt aaacccaaaag gaaatttctc cttcatacac acc 233

<210> 43114

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C3

<400> 43114

tacgtcgatg atgttgtgga aggacgcgtg gcacccgaca acagaattgg aaggttcac 60
tctgatgctt ttgcttcggt gccgaaattg tccccggctg ctttcgataa gcttttcaat 120
gacaagattc aggataacct tgcgctggta tacctgtcaa gcatcacaag gacacaaatc 180
agcatcgccg agaagttgaa cactgctgct caagtgtgt acggttgggc ggtgtggcat 240
ctggtttggga cgtggatggc ttgatgctat ctgggatgct gggcgtaagt gtgattggtg 300
acagaaatgc atttttgtac tcattattat tattgctaaa tgagagacct gatggaaagg 360
gttagccaac gatgagatcc cataatgttg ccagaatgcc agtagagtgg tggatggcca 420
gatgtttctg gtttgatagg attctgggct ccagggttga tatttgtaat gctt 474

<210> 43115

<211> 110

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-035-Q1-K1-C4

<400> 43115

actttacatc acttttatta tgtttatttt ttatggggtt tctttatttt ttcttttgg 60
aaactgtgtt ttaaaaaagg ggaccttgac ttgaccttg atcattaacc 110

<210> 43116
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-035-Q1-K1-F11

 <400> 43116

 cgctgcact accgttccgg aattcccagg tctaccgcg cgtcctacaa gaactagagc 60
 atcccgtagc agagaacgcg ttttccgcgc ctgtgggaca cgtgggtcct gtgggataag 120
 agcgcgggca gtctatggct ggtaggcag acgcctgact cgcagccctt catattcacg 180
 tctcgcggcg ctgtgcgagc agtcgtccca gacgttatct gatacctcgt gatgcatttc 240
 accgtgtcca gctacgagca gttcgaggcc caccttcgct cca 283

<210> 43117
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-035-Q1-K1-F6

 <400> 43117

 ttgtcacaac ttactatat aataggagtt ctatacagaa tatataaata attgcattat 60
 aaggagacaa cgggtccagca acccaaagtt gactgggaga cgacggccta gaccactcac 120
 gaactcatca cagcatcctt catgcgcctc atcctgtggt acctgctctt gacctgggac 180
 ttgagattcc aggtaccaac ttgctctttg gatgacacgt gaccttaccg catagtttga 240
 agttgctaaa tcgcttgcca tgcagtgcag atggaatgcg ttcactctca aatttcgggt 300
 agaaattgcc catgtgtgag accatcgcgt gactcgtaat ccatgcacgg cggctatgaa 360
 tatggaggca cacgttcgct ggttttctct agagcgaccg aaacggcaac ggggc 415

<210> 43118
 <211> 242
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-035-Q1-K1-G3

 <400> 43118

atggggtttgt atctgttagc catataaggt tgcacgttaa gcatgcccct gacttgccgg 60
acgagcagca agacttcggg acctagattg gctaaggcac taagaataga atagcttatac 120
taccgatatg taaagtctta tttccacctt tcgaattctt ttcttcggta gctaagctta 180
tttagttgcc taatggtcga tggtatcttt tttattgtgt gattcattcc actttcatgg 240
ta 242

<210> 43119
<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-D11

<400> 43119

cgtccggaat ttccgggtgg acccagcgt cctaccactc gttctccac tctttccatc 60
tatcacaaca tgatgtcgtg ctcaaacaag gcgaggagag ccttgttcct tctgttccct 120
ttatgcatca tgcttggtgt taaagaagag tcaatgggca 160

<210> 43120
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-D3

<400> 43120

aagaagttca agctgtaacc agagcagtac attctgaagg ttggtgaagg acaggctgcc 60
cgggtgcatca gcggattcac agctatggat atcccaccac cccgtggccc tctctggatc 120
ttgggtgatg ttttcatggg agtctaccac accgtcttcg actatggcaa gctgagggtt 180
ggcttctcag agtctgccta tggatatggt ttggcagcaa cccgcccaga ggcaaacgcg 240
taatttgtgt gtttatgcga ccggcgatgt gtgtatatat gctactacat gtttagtgat 300
gctttccgat acctgatact acgcccgtct gttttaacgt ggcgcaagaa taa 353

<210> 43121
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-D7

<400> 43121

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cctcgaggag caggcgaagg tcatcgttgc tccgcgaagc aacaacgaga tggacgcaac 120
caagctgaag aacgagttcc ccgagctgct gtcgatcaag gactcgttga tcaagtacgt 180
ctttgagccc aacagaaagg tgcccacaga ctgaagtccg aagggctggc acagctgata 240
ccgtacaaca cagcaaccat tacaagtgtt agactatgtg tgtgggcccag cactactttt 300
gggttgctctg cctattaagg ttagagtcct gtgagtctat atattgtacc tcatctctta 360
tacagtac 368

<210> 43122

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-E4

<400> 43122

cccacgcgtc cgaagcaact gaaaacagcc gttcgatctc ctctccctct ccctctccga 60
tcgattctcc agcgcagcga agtaaactg tctgaccggg caaagatgtc gtggcaggcg 120
tacgtggacg agcacctgat gtgcgagatc gagggccacc acctcgcggc ggcgggccatc 180
gtcggccacg acggtgccgc ctgggcgcag agcacggcgt tccccgagtt caagaccgag 240
gacatggcca acatcatgaa ggacttcgac gagccagggc acctcgcgcc gacaggcctg 300
ttcctcggac ctaccaagta catggtcatc caaggcgagc ctggtgccgt catccgtggc 360
aagaagggat caggaggcat caccgtgaag aagacagggc aggcactcgt cgttggcatc 420
tacgacgagc cgatgacgcc tgggcagtgt 450

<210> 43123

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-040-Q1-K1-E9

<400> 43123

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 ctttgggtg aacataatgg tgcgcaggat acatcacaac gatgcatgtt acccattggg 120
 tatacttttc tctctctaac gattggaaaa ttatcaagtc agttaacatg gtgattcaat 180
 tttgagaatg gctggttata gcttttcatg tactccttca attcctaagg aaaag 235

<210> 43124
 <211> 115
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-040-Q1-K1-G10
 <400> 43124

ccggaatacc cggggcgacg ccacgcgtac ggggtgccgag agcagagcga gataaaaaaa 60
 aaggggaaggc gacggaaacg acaagggcgga cggggggggca gggacaagga cagga 115

<210> 43125
 <211> 127
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-041-Q1-K1-A8
 <400> 43125

caacttgggt aggtatcgtg tcttcggtca ttaaagtga gtattctgta tcgccgccag 60
 taatttttgt ggcttttgat gttggaacgc cgattttcaa atcaaagctg acgaccactt 120
 cttgatc 127

<210> 43126
 <211> 288
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-041-Q1-K1-B3
 <400> 43126

ttttagcatc catgattttt tttcatacaa gagttgtcca cgtaaaacat gtctcgtgtt 60
 cgatctatat ttacattatt tgacaacatc tgtcatatgt tatcccacta atatcttatt 120
 ggagatatat ttggaagatg ctggagggtgc tcaaaacact tccgagaaac aacttattct 180

ggcggaattt gtcctaataa tacatatattg ccattagttc aattcttttg ccatgctgct 240
cggttggtat ggccgaggac aacatctaaa tattatgtta tgacagtt 288

<210> 43127
<211> 143
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-041-Q1-K1-C10

<400> 43127

cggaannccc ggggagaccg acgcgtccgg ggcaagaaga aacagagacg gactcgatcc 60
atcgtatcgg cgcaggacac acaacgcggg cggcgacacg gtcaagaagg ggggggggaa 120
caaactcgag accaacatcg cca 143

<210> 43128
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-G9

<400> 43128

gcgtagtggt cgataataaa acccagcgga acaaagaaaa cgtgtaccag aaactgtttg 60
caaacaccgg tgcctttttt tgtgttgaa caccattagt tgagccgtga gggaatggtg 120
aacaagcttt ccacttgctc atttccgagc gcttctcttt gattgtatcc atggtttgga 180
ctcatgactg tacgtcttgg cagttggctt ggcacccagg aatctaata ca ctggagtgc 240
tgctgttatc gagactttgc agcgttgcac tctaaaa 277

<210> 43129
<211> 54
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-041-Q1-K1-H11

<400> 43129

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<210> 43130
 <211> 179
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-041-Q1-K1-H3

 <400> 43130

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 cgccacgaga cgccgcgcga accgacccag gccgacgcgg acaaccccc gcggcgcggg 120
 gggacaaagc gnacagcgac cgcgccacca cccgcgagga ccccgagaag gagagcgag 179

 <210> 43131
 <211> 87
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-041-Q1-K1-H7

 <400> 43131

 ccggccggaa ttcccgggtc accacgcgtc cggacgattc acaagaacat cttaactttt 60
 tttttaataa caactaacc aacatta 87

 <210> 43132
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-042-Q1-K1-B1

 <400> 43132

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 gtcattgatac aaattcttag tggaattatg accttggtaa aactgtgcgt gtttcaatac 120
 acagagtgtc gagcctgtct tattatacaa aggggaccgg aaggagctaa agctcaagat 180
 caccggacgg gtctggaaag agcagcagac accagacggg gcatgtactt caaatctggg 240
 cagctaatta agcaatcttc aaacaaacaa aaacacacac cttgcctgta ctttctttct 300
 aattaaacgn ggtgggggtg ctcaaaggga tttatttatt tattactaat ta 352

<210> 43133
 <211> 139
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-042-Q1-K1-B6

 <400> 43133

 tcgacccacg cgtgcgccca cgcgtccgca tacatgcgtg cataaaacat gaaatacgac 60
 gtgatggaca acatccgggg tggtgaggta ttgacggagc atgcctatgt aagatgaagg 120
 tggaccccaa tagaagggt 139

<210> 43134
 <211> 250
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-042-Q1-K1-D2

 <400> 43134

 agcgtacaag tccattgagt gttgaatggc ctccagggaa gtagttggtg gcaagaaata 60
 agcaataacc gaccagtctc gtggctttgt ttcaagagcc gctttgcggt atatataact 120
 tgatcaaggg ataattaatg tgattcttct gcaagtactg attataatat gctaacctga 180
 atatattgtc taactcggac attttgggga tattgaataa acaatgggag tgtttttttc 240
 tttcttgcaa 250

<210> 43135
 <211> 87
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-042-Q1-K1-D3

 <400> 43135

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 accacgcgtt cgcccacgcg tccggac 87

<210> 43136
 <211> 197
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-F3

<400> 43136

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gcaaaagtct gcgcttcaca aggtgcaaca tggctggaaa gcctgctggt gttactcggt 120
gtcgggacag gatgactgac aacctcaaaa ctactcgcg c aaaagcaact gatgtggcaa 180
atgccagtct tgatggg 197

<210> 43137

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-F4

<400> 43137

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cgtccatgta caaaaactag ccactacaca tcacgcgagg tggctcccga ttattcgact 120
tgctgcacgg gtccaattca gttcatcacc atacacgcat gcacgtggc gcacgccact 180
cacgagcgcg gcgcccacgc gcccaacaact tattacgac 219

<210> 43138

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-042-Q1-K1-G7

<400> 43138

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gtccttaac aacctaaca ctgtggggcg cgacggaacg atcgggggcc ccaagttctt 120
caacatgccg ctgatgctaa tgaagaacat ccgatgacg cgggctcaag atcagcgcg 180
actccaacag acccaacacg gatggcatcc acatcgagcg cagcagcggg atatccatca 240
tggacacgca catcagcacg ggcaacgact gcac 275

<210> 43139

<211> 340

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-043-Q1-K1-A2

 <400> 43139

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 gcatgctggt tcattctctt gggtctcatga gccgctcgtg gatgctgcat gttaagcctc 120
 cttgccttct tactctaaac atggggcact tgccagagac atgatcatgg gggatataat 180
 gcacatctta tcattcctct ggacaagtac acaagccatt atatgtcgtg ctcgactacc 240
 cacttactga tggatgcgat ctcaactcgg gactctgccg tatgattctt tccccctttc 300
 tgctcatcca cttgtcatt ttaagcgact cttgctgttc 340

<210> 43140
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-043-Q1-K1-B12

 <400> 43140

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 agggggatcg ccaacccct tggcatcaag gtgagcgaca agatggagcc cggcgagctg 180
 gtgaagctga tcgacatact gaacccgacg aacaagcccg ggaggatcac cgatcatcaca 240
 aggatggggg cagagaacat cagggtaag ttacctacc ttatccgcgc ggtccgccag 300
 gctggacaga gtgtcacctg gatcactgac ccgatgcacg ggaacacccat caagactcct 360
 tgcggacgaa agactcggcc atttgactcc a 391

<210> 43141
 <211> 167
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-043-Q1-K1-E7

 <400> 43141

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ccgtaaata gcggtgatca taaagtcccc ggggaaccag actttcggga gggtgattcg 120
atccttgttt gggggatgct aatacagctt tgtgtcgcgc ataattt 167

<210> 43142
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-F12

<400> 43142

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agctcaaggg catggccgct gacatgggct ccgagcttga caggcaaaac gaagcgctgg 120
atcatctgca aggcgacgtg gaggagctca actccagggt gaaggagca aaccagcgtg 180
cgcgcaagct cgtcgccaaa taggccgcct agctcgaacg tgggagcttg cgcattcctg 240
ggctctggtt gcgccacgat tcaccctcgc cggttgattg cttgctgtaa catgcatgta 300
ttcgctctcc attgcattgc attgggagcg tttttctgt tcaacagaga atgttctttc 360
tccttgcaat gttcacc 377

<210> 43143
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-G1

<400> 43143

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gcgttcggaa gctgatgggt acgctgcact cgaatgcctt ggttctaggt atggatccca 120
gacagacgat cagcgggtgg ccattggcttg cgtgcatgcy caggatcatag ggatcagcga 180
cagcgccatc taggagctgt gatgtcggca tcgagaggct gatagagatc aagctgcgctc 240
gaatggagaa gctgcaagac ctgcttgctca gcatgctgga gctgtgaaac ctgatggaca 300
cgcttgctga tgagcaacgg gggttccagg gcatgggctg caacatttac gcatgcgagg 360
acgag 365

<210> 43144
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A1

<400> 43144

atagactgta ctatttacat taggatagaa agactgggta ccttagccta agaccaggca 60
aaataattac accccgtaag tcaagaatat ggtcacgaca caggtcacag cgagctgaac 120
aatctgcagt caaaaactgg cagctactag ccgctactga caaacagaat tcacatgact 180
agctggccaa ggacccccta caaaaagcaa cgactcatca cttgggtcca agaattcgag 240
gttttgtttg ccagtactga tccaagcgct 270

<210> 43145
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A9

<400> 43145

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caccttctgc gcccatacct gcgggggttg gacgcctcag cgcgggccct ggggcgggtg 120
gagccgcacg agttctccaa gccagcgag tacctgggca gctgggagcc cgcggcggag 180
cctcgggagg cgtgggcgcg gctggaccgg ctgcgcaagg ggtacgcgag cgaggtgcgg 240
gagctgcggc ggcagtacgc ctacgaggtg caactgttgc aggccgagcg 290

<210> 43146
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-B1

<400> 43146

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gtgacattat agatggctta ttcgatcaa tatttaaaaca cttgtctgaa aactgcaaga 120
aagaactcga atcaataaac aggcagtatc catttgaacc tctgaagtat ctagacaaaa 180

ccttgaagct cacttatgaa gaaggaattc aaatgttgaa ggaagccgga acagaaatcg 240
 agcctatggg tgacctcaat accgaagctg agaaaaaact tggctgggctt gtcagggaaa 300
 agtatgacac agatTTTT 318

<210> 43147
 <211> 207
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-B11

<400> 43147

gagaacaagc ttctcatcgg ctgagattgc tgttagtggt gttcgtgtgg ccctgtcgtt 60
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 ttgtttctga gtgcagtgtt gttgctagca cctgacagta atgaataacc tgctgctaca 180
 taaaggatac tgттаattgt tgtcaaa 207

<210> 43148
 <211> 270
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-D12

<400> 43148

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 gtcccaagat gaagggtgtgc atgcttggtg atgccagca tgttgaggag gccgagaaga 180
 tgggacttga ctacatggat gttgaggctc tcaagaaaat gaacaagaac aagaagcttg 240
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<210> 43149
 <211> 239
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G3

<400> 43149

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aaattgactt tcatatTTTT aaaatgtgat accggggccga gaaatgcttc ccctagctga 120
ccgggaacga gaaattggcc gaggaaccag acttttcggt cggtaattcg aaccatggat 180
aggagtgacc aagatgcgtg tgtgccgcca cgatatcaact catgcagtcg aagcagtac 239

<210> 43150
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H1

<400> 43150

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atgtatatgc gcgcgatcat gctagcagac atctttccta aaaaaaattt aaataatttc 120
catctcgcat tatttttagta gctaccattc atgttttctg agtagttgta taaatgctac 180
caccgtcatc ttttgtaccc ggccggaaca aacgaaaaac acactatcta tgctgtgttg 240
tga 243

<210> 43151
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H8

<400> 43151

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ccttgctgag cgtgggccta gtgggcctgc tectctgccca cctcgccacc accgccttcg 120
cccaccagaa agacatccac gtcctcgcca gcgtcgacgg ctccagcgac ggcagcagcc 180
ccgagtccga aggccgcgtc gtctacgcgg acatgaagct ggctgatacy gaatccgatg 240
cgccggcgcc ggccggcgcg ccggggg 266

<210> 43152
<211> 85
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-D11

<400> 43152

tctagatttt tcaagctgac ctacgcctgc atgcgacggg atatctcttg tatagtgccg 60

cctaacttca actcattgct ccgcc 85

<210> 43153

<211> 358

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-045-Q1-K1-G10

<400> 43153

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cggttcacg atcaccaaca ccgtcattgg cgggggggac tactgcaggg gcatgggggc 120

cagaaccatc aaggggaaca tcaccggcga gacctgcggc cctggccacg ggagcagcat 180

cggcagccta aggcgggaca aggacgagaa ggacgccacg gacaacaacg tcaaagatgg 240

cactctgaag aagacgacga tcggcgggccg catcaaggcg tacgaggacg ccgcctacga 300

gctcaccggc ggcaagatcc actacgagaa aatcaagaag gaagactcag ccaacccc 358

<210> 43154

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-G7

<400> 43154

cccgtcctgc atgggggttgt aagctgtctt tataatttca cggcaagtcg tgtgcctgaa 60

ccttcattctt aagttgttgg cggatccctt cgtcttgttt cggttgcacc ccgtgatggg 120

atggattggg tgctgaccaa aaaaaaata aaaaaaaat aaaa 164

<210> 43155

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H6

<400> 43155

cgccccggaa ttccccgggtc gaccaccccg tccgactaaa ccgaagcttt ggaagccacg 60
cccgccacca tgattaccgc agttcgactg gaatcaacag caatatatga tgtagtgatg 120
gtcttcggtg cacgggggtct gtacctaggg ttgattcgtg cagcaggaag tcctggcgaa 180
caacggacct tcatcgccgg gcatcggtcg ccgcagaacc gcgcaacttc gggggcagcc 240
tgtctgcct atcgattgga gcgcgaggtc gcgtgtcatc tgaaaagcaa gttggtacct 300
ggaatctcaa gtgccaggca agttatgcc ttgatcactt cttttaccca ctcattgttct 360
aattaatcat aatgatctgg atacggtaat tttgatg 397

<210> 43156

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-B4

<400> 43156

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ggatcgtact tagggatttg ccgcaacttc cggtaaaggt acttgataca tgttgggaat 180
gaggggagta gcagcacgtc cactctcact ctcacaatag ctctgccgag gtgcagccat 240
gatttaatta gaaatttatt gtcaaaggaa gtttgatttt ttaactagtc gtgcgcacta 300
gttaattcag ttcattgctg atgtttaact tctctttgct agccgattaa tagtacttag 360
tatgttcttg tcatga 376

<210> 43157

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-C2

<400> 43157

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tgggggctga ccgtaagca ggaagagcca aaggccatgg attcgaaagc ttctactcct 120
 ggagctttat tctacatgat ctcgataaca tcacggcca atagctagac agacagcacg 180
 taagctgtgc accgaggcac gtccatcggc gttcga 216

<210> 43158
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-C5

<400> 43158

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 ggttaaataa tagggtagtt tctcaaggca tacggagtta tgtataggaa ctggtgtacc 180
 ctataactta caacggtgag gagcttcttg tcttgccgat gtcgcatga gatgcagctg 240
 cggcgaacga ggggtgcatgt gttggtacac gcgaagagcg agcataggag tgcgatgaca 300
 cggtatgaca ggatgatgaa accagatgtg ccgatgctgg tattgtacca tctgc 355

<210> 43159
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-C7

<400> 43159

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 aaaaccgaga gacctctgcc ctcaggcggg ccgaccgccg acgtaccagc gcgccaaccc 120
 gagagaaaga tggagatgat caagaggatc ctcacgcgcg cgctcctcgt agtctgcgtc 180
 tcggccacct cagtgtggc ctccaccgag gccgccgtcg ccggtgcccc agccgtctcc 240
 gagtcgtcgg cgtccgccga agccctcgtc gccgccgccg gtgccggcgc cggcaccgtc 300
 accgccgtg tgccctccgt cagcggttcc 330

<210> 43160
 <211> 390
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E8

<400> 43160

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tgtcgtgcat ggcgagaagg ctaagtcaaa ggacaacgat gcaaaagcgt gcggtcccgg 120
tggttccttc gacatcacca agtcggtcgc ctteggcaat ggcaagacgg atagcacgaa 180
ggctgtgcat gaggcgtggg catcagcgtg eggagacacc ggtaagcaga cgatcctcat 240
actcaagggc gacttcctcg tcggaccact caacttcaca ggcccatgca agggcgacgt 300
gaccatccac gtgaatggca atctgctggc gaccacggac ctatgccagt acatggatca 360
tggttaattgg atcgagattc tacgctgga 390

<210> 43161

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F6

<400> 43161

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atgcgctgaa gatcgttggg gcccgccatg cttcccgatg attgctgcca catcgtcgct 120
gaggaaattt caagccccat agctgcacat atactcgact tctactacgg cgacgacggc 180
ctgggcgatg acctctttgc cgcggtgact gccacctctg gccattccc tgccactgac 240
gatgatgttt ctctgtctac cgctaccacc cctcctatct gcggtacag tgaagacacc 300
gcagctgctg gtggagccac agcctacacc ccgttgacat ccttcgacac cacttcaca 360
gccctcctgg aggaagagca gcaccatggg cctgaacccc gggtccttcc gcaaatcgat 420
ggcctatcag aggtagcagc at 442

<210> 43162

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-046-Q1-K1-F8

<400> 43162

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ctgactgcta ttgcccacca catcttgggg acaataacac tgttgtaata acagggattg 120

cattatctga cctgagagag ttgcatagat cttacaatga agagaactac ttacctatga 180

ctctaattgat ggaggtctgt gacctgacct caaaaaatct gataggatcg aatcaattga 240

agcgagcata tcaacaatgc tagcatatgg acatgatgtc tgtcaacctg tacctcacac 300

atacgtcggg cacgttaatc gtgaaacggg gaagcgagtg tctttcatcg atccaaatga 360

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<210> 43163

<211> 219

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-046-Q1-K1-G11

<400> 43163

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cgatgtggtg ngaggcgggtg aggcgcgggt tggtcgcgac ggcgcggccc gcgttctctc 120

gggcggcggg ggcggaaaaa aacttccgcg ccgtgggtggg gccgcgtttc ggtgggcccg 180

aggtgctcga ggtcangcaa ggcattgcctg tgccccatc 219

<210> 43164

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-H7

<400> 43164

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ttctggtctg caagcgttgg tctgaaggca tacggggggg gtggcactga ttctcttggc 120

aggatcctta tctcaacaca gctataaac tctgagacac atacttggac acctcttctc 180

agcatgaata aggcacggaa aaattgctct ggcttgttca tggatggcaa attttacgta 240

attgtcagag tgacaaacaa catcatggca ttgacctgcg gtgaagtgta cgatgcgcat 300
aacaagactt gtatggtgat cgataacatg 330

<210> 43165
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-C1

<400> 43165

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tgcaaaagat gtcgcaaaag attggaatgc tgtgtttgaa aggagcatca atacattggt 120
tttgactgaa atgggtccgtg gcttgatgct aactctcaag tacttctttg atagaaatgt 180
cacaattaac tatccgtttg agaaggggtcc tctgagcccc cgcttccgtg gtgagcatgc 240
tctcagacgt tatgaatctg gggaagagcg ctgcattgct tgtaaactat gcgaagctat 300
atgccagcg caggcaatta caattgatgc tgaagaacgt gaagatggca gtcgccgaac 360
cacaggatat gatattgaca tgaccaaagc catttactgt gggttc 406

<210> 43166
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-C3

<400> 43166

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agttaggcag cactgattgg aggtccatct cctgctgaga tgcttgtttt tctctttggt 120
gttcaaacac tttaacacca aataagcaac tgcagtgaca ttaatttttg ctgcacacaa 180
gttacatgaa ctgaagaaac ttgtggcctg tgtgacgcgg atccatcaga acataaagtt 240
acggcttctg gttggtaaat tatgct 266

<210> 43167
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-047-Q1-K1-C9

<400> 43167

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tggctgggct aataggtgtc ctggtggggc tctgatgag cctcatcttc tcttcgccgc 120
cggttgatgc ataagatgcg agaaaaagggt tgcagcctat ggaagcatta attgttcaga 180
ccgacatggg gagaaagctc gctcgggaaa agaagaagat gaaacttttg tcgtagtagt 240
ctccattttc attcttttgt tgcttgcacc gtagttatat gaaacgatga taacggggtg 300
cagatctttg atctttccac ccgtgcttgg ttcanaaaaa aaaaattaag ataagaataa 360
taatatataa acggggcggc cgctcgttat gttccaaact tacgtgcgcg tgcattgcgc 420
ttaatatattc ttttata 437

<210> 43168
<211> 106
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F5

<400> 43168

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atataaagct cagcacatct caaatacgaa cctgagaga ctctca 106

<210> 43169
<211> 380
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-047-Q1-K1-G1

<400> 43169

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aggagcgaga tggagatgaa gaggatcctc ttcgccgtcc tcgtcgtcat cgccgcctcg 120
gccaccgcag tgctggcctc caccgaggcc gccgccgcgg gcgccccaac tgcctccgag 180
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gggccctccg tcagcagcgg cgcgcccgtc ctcgccgtcg ggcccgtcgc gctcctcttc 300
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<210> 43170
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-047-Q1-K1-G2
 <400> 43170

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 aattttgaca gagtagatcc agcaccatct gttcattgaa cttgtgagct cgatggatgg 120
 gtttttctgc agtttagcggg gtttagttaa gttcgaagga taatgcagta gacaacgttg 180
 gtcacgtgtg gtggtgaggt tccaagtaag agagagcadc aactcacgt aacaggaatg 240
 atcattgatg gattgaggcg ccttaattga aattggtgcc ttccacctca tggatgcagg 300
 ttaattcttt tcttcgttga ttttttgacc cctcttgctt tgctcttctg tcaataagga 360
 catacacagg ttaaaattca aattctttgc tcttagttgt tgcacattga ttgtcctatc 420
 actattatgt tgatgc 436

<210> 43171
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-047-Q1-K1-G6
 <400> 43171

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 cccgaacaac gccgagggcg tgatacattg gcggcgacaa cctctctttc tctcactacc 180
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acttcaggta gaggaaggtc ctggcggtg gggcccaata gcagatgcgt gcgtgacgcg 420
tgtgagggca gtctga 436

<210> 43172
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H7

<400> 43172

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agctatatct gaaagatggc tggatggggc tcttggtaaa tcagctgcc ctgacgaaga 120
gatacaaagt acaagcgttg taaagggtgaa acgttctaaa gaagaatgtg gccacataat 180
ccatgagtat tttctctcag atgaagtccc agaacttatt cgaagccttg aatagctttc 240
tgttccagaa ttcaatccca ttttccttaa gaagcttggtg acgcttgcta tggatagaaa 300
gagcagacat aacgagatgg actcagttct cctttcttca ttgagattag aattgctttc 360
aactgatgac atcattgaag gtttctgtat gcttttgcag tcagcacaag acactgtact 420
tgacattgcc gatg 434

<210> 43173
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-048-Q1-K1-A1

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tcaccgagcg ccgccgcgt gagaaggcgc ggcagcagcg caggcgcac atgatcgccg 180
tcgggactgt ctccataatc gccatactca tcgtcattgg ctggtacgcg gtcatgaaca 240
gcgggaagaa gtcgtccagc gacggtgacc acaaccacaa gtcttcgtcg tcgcgggcca 300
aaggcaagtc cagcggcgga tcggactcgg aagcggaagc ggaaacggaa acggaatcgg 360
ggtcggattc gaagacggat ctgaaggctg tgncaagag catcaaagcg atgtgctcgc 420

agacagacta cacggacgcg tgc

443

<210> 43174

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-A12

<400> 43174

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tcccgttatt actacgacta acaaccgaga ggggcaactg gggtcattcta caagacgtac 120

tgccagccaa ctgcacacca cacgcactgt acacttccca cttaccatta tactatactt 180

cgaactccct tccattcatc ctactctgtg gcctatgaac cttacggacc cagctaacta 240

agcttatctc tatcgcatga ctaagcatgc accggtaacc acatatacta ctgacacttc 300

tgacacctag tctatgtcat gctttcgtac tactttaaga ggcaattcta atcatgtatg 360

cc 362

<210> 43175

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-048-Q1-K1-A2

<400> 43175

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aatcagactt gcttctggtg acgccagaaa ttgtcaagaa gacatactgt ttgaagatca 120

ggcaagagct gatgcatcgc cttccagctg tgacgagtcg agtggtgtag caagccttaa 180

aattcagatt tctctgttga atataagact gagggcactt gaagaggatc aggagttcct 240

caatcaggta ttgagttcgc tccaatgtgg tagtgatggg ctgcagtgta tacaggagat 300

aagcaggcac ttagcagagt tgcgaagagt tgtggctcac taaaatgaaa atggttttgc 360

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agtcacttag atagcaggc 439

<210> 43176
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-A3

<400> 43176

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ttcgacgacc cagcaagaag tgaaggcgct cctctctcag atgtcatctg tacggggcct   180
cgatggttct tccagtgaag gatctcctag ccccggtacc agcgctccga acgaagagag   240
caaccctgcg actgcgagca agaggccgta tctcgagagg aactactccg tgctggaacc   300
ttcagaaggg agccagctcg ccgacgacgt ggaatgggaa agctctctcg agaacgtgaa   360
gaaacagctt gagatcaaca agaaggcgat ggccgctctt tacaaggagc ttgagggaga   420
acggagcgct ttcgcggtcg                                     440
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<210> 43177
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-A4

<400> 43177

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ttccgggtgc gggaggcaac cggggaagaa ctctaccatc tccaatgttc tctctggata   120
gcggatccac aatggttctt ccagaaccc gggcaggctc taattgatat atgctgagtc   180
aggcgacgcc aatgctgtta acaaaatagt ctactagaac ccattcgatg ctcttatgca   240
ctttgatgct gctgcttatg ttgaacagag cactgtgat ccactcaggc tctaccacac   300
cgtaacgctt aacacgttgg cagttc                                     326
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<210> 43178
 <211> 219
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-A6

<400> 43178

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ggctcgcgac gttcgcgatg gcgtcgtaca agctgaaggc ggccggcgtgg acgccgggtct 120
ggcaccaccg gtaggtggcc gcgtccctcg cgcaggccgc cgacgcctgg ctcaggctcc 180
tgcgcgccaa ccaccggac caattctact tcggggccc 219

<210> 43179

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-048-Q1-K1-A7

<400> 43179

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ttgaccgccc ggctgtgtcg atgcgccgag gggtcagggt catgganggg aagggtgatc 120
acatcgccgt gattgtgggc accgtgaccg acgacaagag gatcagcgag gtgccggcga 180
tgaaggctcg cgcgctcagg ttactgaga cagcgagggc caggatcatc aatgctggcg 240
gagagtgcct cacctttgac cagctcgcgc tccgtgcccc acttgggcaa aacacggttc 300
tgctgagggg tctaagaac gctaggaag ctgtcaggca ctttgggcct gcaccaggag 360
tgccttacag ccacaccaag cttatgttc gtcgaaagg taggaagctt gataaggcga 420
gaggaaggaa gaacagcatg ggctttaagg tctaagtg 458

<210> 43180

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-A8

<400> 43180

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tctgaccggg caaagatgtc gtggcaggcg tacgtggacg agcacctgat gtgcgagatc 120
gagggccacc acctcgcggc ggccggccatc gtcggccacg acggtgccgc ctgggcgcag 180

agcacggcgt tccccgagtt caagaccgag gacatggcca acatcatgaa ggacttcgac 240
gagccagggc acctcgcgcc gacaggcctg ttcctcggac ctaccaagta catggtcac 300
caaggcgagc ctggtgccgt catccgtggc aagaagggat caggaggcat caccgtgaag 360
aagacagggc aggcactcgt cgttggcatc tacgacgagc cgatgacgcc tgtgcagt 418

<210> 43181
<211> 416
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-048-Q1-K1-B1

<400> 43181

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tcactatgct catgggatcc tagcaagaga ccaaagnaca gaatcctcca gcataccttc 120
ttcagggttg tacatgtggt ccgcttcctg tccgtcggaa agcttcatcg cttcctaaaa 180
cacctccatg tgttggatca aagagaattt ccgagaacag cgttgctaga agattctcga 240
ccgggactct atctacgatg aaatctcata gcaatgcacc tgcaaaatca aacggtttat 300
ctaggactgg tgtacaaaga aaacttcact tggatcgta gccaccgcag aagagtacaa 360
aaccgaccga taacagcaat atgctagcta caaatcgggt cccagcccgg aacagc 416

<210> 43182
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-B2

<400> 43182

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catgaggggtg gaatgggacg cgcttagcta attaattaga agaacctggg ggtgtagttg 120
gctttgccgg aagggccatc aatgagggcc gggcgcgtag tgctcgctct actaagggtg 180
ggtgcagagg ttcaattgat ttggttttgt tagtcaccta ccttggggag gtgtactgcg 240
tttgtacgac tggcgaaacc taacgagcag ctatgcacca ggggagtcct tgtaaaggct 300

atgtagttgt tgggggcttt cgtcttctga aggtcctcaa aaacatgatt aacaatgttt 360
 tcccaagtgt aatatatata tacaggagcc ttcggaatcg gaatgaagtt gtccacaata 420
 cgaaaagcat ggttggtacg aaggtcataa cca 453

<210> 43183
 <211> 445
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-048-Q1-K1-B3

<400> 43183

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 gccgacgcgg gaggagagcg tgtacatggc caagcttgcg gagcaggcgg agcgggtacga 180
 ggagatggtc gagttcatgg agcgcgtcgc gcgctacgcc gggggcgccg gcggcgggga 240
 ggagctctcg gtggaggagc gcaacctgct gtccgtcgcc tacaagaacg tcatcggcgc 300
 ccgcagggcc tcgtggcgga tcatctctc catcgagcag aaggaggaag gccgcgggaa 360
 cgaggcgcac gccgnatnca ttcgcgccta ccggtccaag atcgaggccg agctcgcccc 420
 catctgcgac ggcatactcg cgctc 445

<210> 43184
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-B4

<400> 43184

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 gggcgaggat ctggacagtc tggacttcga cgagctgcgc ggctctgagc aaaacgtcga 120
 cgcggtctc aaggagggtc gccataggaa gtaccatgtg atcagcacgc agaccgatac 180
 ctacaagaaa aaggtgaagc actctcacga ggcgtacaag aacctgcagc aggagctagg 240
 catgcgggag gacccggcgt tcgggtacgt ggacaacacg ggcgccggcg tcgcctggga 300
 cggcgcgggc gcggcgctgg gcggcgcccc gccggacatg tacgccttcc gcgtgggtgcc 360

cagccagccc aacctgcacg gcatggccta cggcttccac gacctccgcc tgggctagcg 420
catccatcac catgc 435

<210> 43185
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-B5

<400> 43185

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gtgtctcctt cactgtctcc aacaacatcg ttccaggcct caagtacacc aacacgggtct 120
ggaagactgg agtcaaagtg gagaaccaga aaatgatgct agggacattc agtccccagc 180
aagagccgta cgtttacgag ggtgaagaag agaccacacc tgctggcatc ttgcgaagag 240
gttcctattc tgctaagcta aagttttttg atgatgatgg caagtgttat ttggagacga 300
gttactactt tgagattaga aaagagtggc cagggccagc aacctaataa tatatggagc 360
ggcgggtgtg gattcgtaa acacatacat gttagaactc ttagttaaga caagcagaag 420
atctattata ttcta 435

<210> 43186
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-B6

<400> 43186

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gtgacctcct ctaccaccac ctctcccctt ccacctcggc tgccatcgcc gccttcagat 120
ccgcctcca gcccgggctc gctccccaag ggttggttg agcggatggc gcaagatgca 180
tgtctcgcat ggcgccggcg gtcaaggggt ccgggcatct cgtccgcatg ggcaccggag 240
ggaggtcttc tgtgagtgga atcgtagcca ccgtgtttgg agctactggg tttcttgggc 300
gctatcttgt gcaacaactt gccaaagtgg cgtctcaagt gctctgcca ttccagagcgt 360
gtgaggattc tctcgtcac ctgaagacta tgggtgact 399

<210> 43187
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-048-Q1-K1-B7

 <400> 43187

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 atgactctag agaatctaca gatgttgagt cagtaatccg aactgtcaga ttagtttctg 120
 agagtcttgc gagacacatc tatggattga gagggaggaa tatcgatgtt tttgcagaga 180
 atagcagctt agccatcaat cctcgctacg tccggtcctg gttggatctt ttgtcacgga 240
 caccacgagt cgcacctttt ctacagaaga atgatccctt catagcagcg ctgaaaaagg 300
 aactgtccga gcacacgtct gatgtgcatg ttcaaagtga tgcgcttgaa ggcattgttca 360
 ctttctatga tacaactaaa gcgactctaa atgtgtacca gggtgcaagt gttacctttg 420
 atct 424

<210> 43188
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-048-Q1-K1-B8

 <400> 43188

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 gggctactgc cgctgcnnca gcggcttcag ctttcgccgg agatgtgaga gcctccgtgc 120
 cgttggagat ggctgcggtt ggggcaggga ccgggagcga ggtgatagaa gctgggcgcg 180
 tcgcggagct tgatcctgct cgacgcggtc ggggaggagc agctgctgga cgccgataag 240
 tacgccatca tgcgccgcgt ttacatcaac gcgcgcgacc tccgcacctt cgaccctgtg 300
 ctattcctac ccctccacaa tcctaattcg ccagcgtgcc atcgtcctca atctcgagca 360
 tataa 365

<210> 43189

<211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-048-Q1-K1-C1

 <400> 43189

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 tacggcgagg acggtgaagg atgtcaacct gcacgagttc gtcaaggcct actccgcccc 120
 cctcaagcgc tccggcaaga tggagctccc tgagtgggtt gacattgtga agactgcgag 180
 gttcaaggag cttcctcctt atgacacctga ctggtactac atcagggctg catccattgc 240
 aaggaagatc tacctaaggc aaggcatcgg tgtgggtggc tttcagaaga tctacgggtg 300
 ccgccagagg aatggctccc gccaccaca cttctgcaag agcagtgggtg ctgttgacag 360
 caacatcctg cagcagctgc agattatggg catcatcgat gtcgatccca aggggtggacg 420
 cctcatcacc aaccagggga g 441

<210> 43190
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-048-Q1-K1-C10

 <400> 43190

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 gtctgcggcg agttctcatc tgtctgtcga ggcattgac gatatgtttg cttcattttc 120
 ctgcttcctg ccttgtgatt atctggtgtg tgtgtgtgtg tgtgactgac taagtcgcgg 180
 cgattaggta actcgcttag aacgtatttc ccgtgtttga gcaaaagaaa gtatccctgt 240
 tatctctgtt ccataagtta tacatgacgt aatcgtacta agttttatttt tactttatct 300
 acttgaatgg aaaagtatgc ttcccattha aaaaacacag acctaatact gtactaggac 360
 catggttaatt ggatcgagat tctacgcgtg gataacctgg tcataaccgg caagggaaac 420
 cttgac 426

<210> 43191
 <211> 464
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-C12

<400> 43191

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accgttcctc cgagcccatt agcagccccg ctccaggagg aagtttggtg ttttaacaat 120
atgtcgaggg aggagaatgt ttacatggcc aagttggctg atcaggctga aaggtatgag 180
gagatgggtg agtatatgga gaaggtggct aagactgtag atgtggaaga gctcactgtt 240
gaggagcgta accttctgtc tgttgcatatc aagaatgtga ttggggctcg cctcgcttga 300
tggcgcatgt attctttcat tgaacaaaag gacgagtgcc gtaagaacga agagcatgtg 360
aaccttatca aggaatatcg cgtcatgac gacgctgaac tgatcaattt ctgggacgct 420
tcttgaagct gcttgacttc cacttattgc cttcttatac tgct 464
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<210> 43192

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-C2

<400> 43192

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gtattaatgg aatttcattg tgtgctcgat aggcatagcc tactgctaca ggcttgtgaa 120
acagactctg tctcccagca agacttgatt gacttgggta gagctggctt tggtagctgt 180
ttgcttgctg gtttgctgt atggcttgtt gcttacacag ctcacctggt acggtttata 240
taccttgaga ggcagaagct ccctgatgag atcttaaggc acaatgtgga tgagaagcga 300
cagttcctta tagaaataaa catggattct gagaagaatg atgctgaggt tcaggcagag 360
ggagtactaa attcaagatt acagcaaata gtgcatacac ttgacaaggt gagatatgtt 420
atgagatgca tatttgag 439
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<210> 43193

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-C3

<400> 43193

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tggcggatgc cggattcttg cagcatcatt atgtgaggat gaatgcatgc gtagttatac 180
ggctataccc ttcttgctg ccttcacatg caactgaccg attcttttgg ttaggcggtc 240
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aagttgggtg tgattacttg tagctcacag ttacatattg aggggggtact cagggcccgt 360
ttggatacat ctagctaaat tttttaggcc ccatgtttga atactagtta gaaacattaa 420
atatagtcta aaactaatta caca 444

<210> 43194

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-C4

<400> 43194

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agggtgagctg ccgggcgtcg tctatagacg tcgagcgggg cagggccgtg agctttggga 120
gaggaggaga taattaatgg cggctaagga gagtagtagg acgatggcgg cggcgcgcctc 180
tgcggaagg atcggggtcg tggcctctgt ggcgatgaac ctgcgtggc ttgcgatgta 240
catccgccag cgctacgggg agatcaccac ggtggaggcg tcccaggga agccgccggg 300
cactcaggac tccgtcgtca tctcgatca cggcgaccg gtcatgtacg aggagttctg 360
gcgccgcgag ggagacagcg cctcgatcct gatcccc 397

<210> 43195

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-048-Q1-K1-C5

<400> 43195

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 tatgcttggtg gaaatgggtga gccgcctccc gcgcagcagc ctanccggcgt cacgctgcgt 120
 ctccaagcac ttgtgctcca tcgtggacgc ccgacgtctc ctgcgcaccg gccacctgct 180
 tcctctccgc ctgcagcgtt tctactgcat cagcctggcc tcggtcgacg gggagacata 240
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 agatcttgag gttgtggatc actgcaacgg tctactgttg ctgtgtgaca tggttttcag 360
 gttgctgaac cctgccacac ggcaatcggc agccctgcct aaagccccgg atccatccat 420
 tgagaacatg cttgggggtcg ccacagtttg ggccggg 457

<210> 43196
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-C6

<400> 43196

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 gaactaaacg tgaaggggtgt cttccatgcg gcgataaagg ttgtgctgca gccgcctaaa 120
 gcgaagaata agaaaaaggc gcagaggggg gcgtgctcca ttttgtgacg taataatgat 180
 cagtagacaa aagaaacaag ggccaaagtg ccatgggtct attatatccg cgtcttgctg 240
 taacggaaca accatggatg ataccacccc ctctccccta tatattactg tgggggtgtga 300
 agagatctag gggttttaga gagatatatg tgtgttatat tcctcccttc cgccccgtga 360
 gaatatcgcg tgtgtgtgtg ac 382

<210> 43197
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-C7

<400> 43197

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attcttctat taattacatc catcacattt tttttttcaa taaattccca tattatttaa 180
catttttacc acttttttaa attgggcatt caatgatttt cataacttca tgattaacac 240
acctattcta aatatattac atattctttt actat 275

<210> 43198
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-C8

<400> 43198

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ttcccatcct ccttatctcc accgcgcggc ccgtgcgggc catcacggac gccgcggcg 180
gccccggata cctccaggag gcgtgcaaca agacgctgtt cccaagggtg tgcatgcacg 240
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agctgctcgt gtacgtgtcg gccgaagtgg gcatgaccgt ggccgcgttc ggcgaccacg 360
agctcaacgc catcaaggac gacgacgtcc tgtacaagtg catcgacac 409

<210> 43199
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-048-Q1-K1-D1

<400> 43199

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ccagacaagc accgcggcgc ggggcacctg gtccgcgcgc cgcagctcgt cctgtcgcg 180
gaggtcgggt ggtgcgggca gcgcgcgtgg cggaagctgc tcaggcggct ggcgcaggag 240
accaggtgcg tgtgcagctc cccgacggcg gcggccacgg gtcggcccat cacgttcggc 300
tacgacgccg ccagctacgc caagaacttc gacgacgggc gcagnccgcg gccgcgccgc 360

gtcgtcgtcg gcgccaatgc gggcgataaa ccgagcggca acaactgacc accccatcga 420
cgttct 426

<210> 43200
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-D2

<400> 43200

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ccttcgtcta gagactctat ccttcacgcc acgcctacta cagccccac cgacttctac 180
tatgcctcca tgcagtacac caagtaccct gagcttttcg tcaagtactc atcctcctcg 240
gcgccgaaag caaatgcgaa tgctgatcgg agaaaacaaa ctgcactggg cggactagca 300
ctatccca 308

<210> 43201
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-D3

<400> 43201

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cctggtgctc cgtctcaggg gtggcatgca gatctttgtg aagacactca ctggcaagac 180
aatcaccctt gaggtggagt cttcggatac cattgacaat gtcaaggcca agatccagga 240
caaggagggc atcccaccgg accagcagcg cctcatcttc gccggcaagc agctggagga 300
tggccgcacc ctggcgggact acaacatcca gaaggagagc accctccacc tgggtgctccg 360
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ggtggagagc tctgacacca tt 442

<210> 43202

<211> 257
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-048-Q1-K1-D4

 <400> 43202

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 ttcaatgttg catcttatgc tccatacttc aatgttgata ctgatgttgt agttgacagg 180
 ctcattagtt cagtttatcc aatggatgtt ttacaggaa aatgatgcta tcctgacatg 240
 tatgggcctt tgtggat 257

<210> 43203
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-048-Q1-K1-D5

 <400> 43203

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 ttacactttg atcatccgtc ccgatgcaac atacagcatt ctcatcgata atgaagagaa 180
 gcaaactggc agcatctatg agcactggga tattcttccc cctaagcaaa tcaaggaccc 240
 agaggctaag aagcctgagg actgggatga caaggaatac attcctgacc ctgaggacaa 300
 gaagccagag ggctatgatg atattcccaa ggaaattcct gaccctgatg ctaagaagcc 360
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<210> 43204
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 43204

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 gcgcgctgct ggtgatcgcc ttcttggcgg cgcagctggt ggcgacgtgc atcgccgtgt 180
 acgccaactg ggagttctgc aagatgcagg gcatcggctg gggctggggg ggcgccatct 240
 gggcgttcag cgtcgtcacc tacttcccgc tggacgtgct caagttcgcc atccgctacg 300
 cgctctccgg catggcctgg aacaacatca acaacaagac ggccttcacc aaccgcaccg 360
 actacngcaa gggcgagcga gaagcgcaat gggccacggc acatatgacg c 411

<210> 43205
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-D7

<400> 43205

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 gtgagccacg ccgccacgag ccaccacgag cacggcgggc agctcagcga tctggagtcg 180
 gatctggtgg ggcggcagaa gactggctgc tcgtcgtcgc cggcgggaac aacgccggct 240
 gcagagctga tcgtgccgcc agcacagcag atctagcaat tccaggtggt aaaaagggt 300
 ttttcatcaa caagtgttca ccaaagaag aactgaaaca tcaagatggt gtttgcttct 360
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 aagatga 427

<210> 43206
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-D8

<400> 43206

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 ggtaagggta ggggaggcag gggacacggt ggcgccgtca acccgaggt cgccggcatc 120

tgctctcgca ccccggttccc ggaggtgtgc acgtccaccg ccggggcggca cgcgtccaag 180
 tacccggtca tgcacaacct ggccgtgctg aacatgcagg tggacgcgtt cgccaagcgc 240
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 caggcgctca cgttctgcga caccatgtac atgaacacgc aggacaccat cggcgcgggc 360
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<210> 43207
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-E1

<400> 43207

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 tagccgcgtc cgccgtcgaa cgccgccgct cgtccgctcc ttcgctcggc cagaagggag 180
 gaagacagaa gggatactag gggttctact ccggcggtag gtggggcagc tgccccaccg 240
 tgccgcatgg ggagctccgc ctctgctggc ggatgaaatg atcctgcggc cttctcttct 300
 ggccgtcgcc cgccctctca gcaccgtagc cgtcgcggcg gccgtccgcc gcggtgacct 360
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<210> 43208
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-E2

<400> 43208

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 aaccgtatca caccctcatg ggttgcttc accgatagcg agaggctcat cggtgaggct 180
 gccagaacc aggcagctgt caaccctgag aggaccatct ttgacgtcaa gcgtctcatc 240

ggaagaaagt ttcaggataa ggaagtccag agggacatga aacttgcccc ctacaagatt 300
 attaacaagg atggcaagcc atacattcag gtcaagatca aggatgggga gaacaaggtc 360
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<210> 43209
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-048-Q1-K1-E3

<400> 43209

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 cgccaacgag gtgccaaga cgcgggagaa cttccgcgcg ctgtgcacgg gcgagaaggg 180
 cgtgggcaag tccgggaagc cgctccacta caagggtcc accttccacc gcgtcatccc 240
 cgagttcatg tgccagggcg ggcacttcac ccgcggcaac ggcaccggcg gcgagtccat 300
 ctacggcgag aagttccccg acgagaagtt cgtgcgcaag cacaccgccc ncggtgtgct 360
 ctccatggcc aacgccgggc ccaacaccaa cggctcccag ttcttcatct gcaccgtcgc 420
 g 421

<210> 43210
 <211> 302
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-048-Q1-K1-E4

<400> 43210

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 ctgtactcca actatgtccc ctatacctct actactacct tgcgctttgc acattctaga 180
 acagcgttat caattcccgtagccaatcc actacatggt ctcacacctt taccccgctct 240
 tctccaagtt attgtccatg tcgatgactt caccctgtgac atctatccct tctcctattc 300

<210> 43211
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-E5

<400> 43211

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gggtcgtggc agacatacgt cgatgagcac ctgatgtgcg agatcgaggg ccaccacctg 120
acctccgctg ccatagtcgg ccacgacggc gccgtttggg cccagagcac cgcattccca 180
cagttcaaga cagaggagat gaccaacatc atgaaggact tcgacgagcc cgggttcctt 240
gccccgaccg gcctcttcct cggccccacc aagtacatgg tcatccaagg cgagcccggc 300
gctgtcatcc gcgggaagaa gggatctgga ggcataactg tgaagaagac agggcaagcg 360
atggtggtcg gcatctacga cgagcccatg acccccggcc agtgcaaca 409

<210> 43212
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-E6

<400> 43212

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agctagaaac atgttttttg gcaactacaa acaattttcg agctatacag ctaacacccc 120
tcttgtttgg cttaaccgat agcgataggc tcattggtga ggggtggcacc aactagccac 180
atgtcaacac tgagaggggc acctacagtc ttaagcgctt catcttgcca gagtttcatg 240
attaggaagt ccacatggac atgcaacctt gcccctt 277

<210> 43213
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-E7

<400> 43213

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agcgactcac aatagcaaaa accaccatcc gtcgctcgcca accgtatcaa gaacatcacc 120

accgcccagc aataatggcg catagcatga ggattgtggc gctggccctg gtggccctgc 180

tgggtgggtggc ggcggtctgc cccgtggcca ccgcgtacgg ctgctacgac gactgctacg 240

agcgctgcgc caacggcaag aaagaccccg cctgcaccaa gatgttcata ccaggcgtgc 300

ggctccacgg atcagggcgc cgggtgacgac aacgcctcgc cggtttgatc ctttagcaca 360

ttcatcgctt 370

<210> 43214

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-E8

<400> 43214

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gcgcgccgtc atgctggcac agccgcacgg ctccagcagc ctcaaggatg tccaggctgc 120

cttcagcaac gccgaccaca aggacagcag caccaagggtg gaacagccgg cggacagctc 180

cttgaagccg gcgagcctga acgcgttcga catcatctcc cactccagag ggttcgacct 240

gtcaagcctg ttcgaggtgg accaagagca gaaggccagc aactcgcggg tcatgacca 300

taaaccggcg tcggcgatag tgtcaaagct ggagcagatc gctgagacag agcgcttcat 360

ggtgaagaaa caggacgggc tgggtgaagct gcatgggtcc aagcaaggga agaaggggc 419

<210> 43215

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-F1

<400> 43215

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cttccacagt ttcaagcact gcttcagttg gtccaggcta atcctcaa at cttgcagcca 180
atgcttcaag aactaggcaa acaaaaccca caaatcctgc gtttgattca ggaaaatcaa 240
gctgagtttg tccgcttggg gaacgaaact ccggaggggtg gtcctggagg aaacatatta 300
gggtcaactgg cagctgctat gccgcaatcg gtgacagtta cccagagga acgagaggcc 360
atccagcggc ttgagggaaat gggcttcaac cgtgagcttg tgctagaagt tttctttgca 420
tgcaacaagg acgaagagc 439

<210> 43216
<211> 308
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-048-Q1-K1-F12
<400> 43216

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acttcactct actactgata tactccatcg taaaaacta tccactaacc aataacatgc 180
atctaaaccg ttatcatcca ctccacgaac tgactcatat gcacgatcac aaactgtcgt 240
aaacacagca ctattagccc tagaaccgt tacgggtacta cettcaacag caggtcctca 300
aaggtgac 308

<210> 43217
<211> 432
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-048-Q1-K1-F2
<400> 43217

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ctgctacgag aataacagtc cctgaaatcc ggaatcatag ttggttcttg aagaaccttc 120
ctgctgatct gatggatgat gatagcatga gcaaccaata tgaggagcct gaccagccaa 180
tgagacccat ggatcagatc atgcagatgt taacagaggc caccatacca cctgcctggt 240
ctcgcagtat aaatgtccta gctgatggac tggacatgga cgacgacatg gatgatcttg 300

attccgactc agatcttgat gttgacagca gcggtgagat tgtgtacgca atgtgagtaa 360
catctcagca gccatctcag cagtcaacca aggaaccaat catgcatggg atgccctggt 420
gtataactctg gc 432

<210> 43218
<211> 420
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-048-Q1-K1-F3
<400> 43218

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gaagaagagg aaccactatg tggagggtgg tgatgccggt aaccgtgaga attacatcaa 120
cgagctcatc aaaaggatga attaggttca cgaccaagct catttgtgttc taagaaactt 180
tctgtgctct cccaatttta cattattagg aagtggatga atatgcatgc agttttgttg 240
tttggaacta gatgtgtatg gaagaaatat gatctttttt cccggagggt tagaattata 300
tatttagggc tagtttgga acttcatttt ccaagggtt tctattttgc ctaggaaaaa 360
tgaactgngc ttcccaaact agcccatgat gcatttccca tcctgtgtat cgggcctttt 420

<210> 43219
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-048-Q1-K1-F4
<400> 43219

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atcgctataa tttttgctgg gctccggtaa atataaggga tccaaaagcc atgtaccatc 120
ttttaagatt tgccaccaac tattctcata gccgtcgtgt tggcatcgca ttgggaatac 180
caaggggttc tgcaaaaaat gacgctgagc ttctggacct tgagacaaaa catcaggtcc 240
tatcaatgta tctatggttg tcacatcatt ttgaggaaga taactttcct catgtgcagc 300
atgctgaaaa catggcaata aatattgctg atttacttgg caagtcgctt gcgaaagcat 360

gctggaagcc tgaatcaaga cagcaagtta gggggcgacg agaaggaaag gatgagtaca 420
atgaggaaca agcatcaaat gaaa 444

<210> 43220
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-F5

<400> 43220

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tgggcatgctg tgcaacacaa gaggcttatc acatcccaaa cagcgacac gccacaccgg 120
ccgcacacga agatacaaga ctgttcatcc acgaaatcgt ctggccacgt acaatcaagg 180
agatagatcg tgggaggaga gacgatgcac cgttcgctga gctactacct gcagcagtcg 240
tcgtcatcgt cgctcgtcgt gtcacgtcgt gtagcggcga ccggcggggc ggcatcgccg 300
ggtcggagct cgacggcggg cgatgatgat gtggaccatc tgccgactta tgaccgcggg 360
tcggacttgg ccaaaaagga tgccctggat g 391

<210> 43221
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-F6

<400> 43221

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ccaacatcac caccaactac aacggcaagt ggctcaccgc tagggccacc tggtagggtc 180
agcccaacgg tgccggcgct cctgacaacg gcggtgcgtg cgggatcaag aacgtgaacc 240
tgccacccta cagcggcatg acggcgtcgt gcaacgtccc catcttcaag gacggcaagg 300
gctgcggctc atgctacgag gtgagatgca aggaaaaacc tgagtgtcgt ggcaatccag 360
tcacggtgta catcactgac atgaactacg agcctatcgc tccctaccac ttcgacttga 420
gcg 423

<210> 43222
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-048-Q1-K1-F7

 <400> 43222

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 caccggccgc atctactgcg acaactgccg cgccgggttc gagacaaacg tgtcccacgc 180
 catccaaggc gcgacggtgg agatggagtg ccgccacttc gagtcgcage aggtccacga 240
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 ccaggacgag atctgcgacg tgcgcctgct caagagcccc gaggcggact ggcgcgagat 360
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 c 421

<210> 43223
 <211> 291
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-048-Q1-K1-F8

 <400> 43223

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 gtcggagcca gccgtcgagg cccgatgggc agcaggacga cgctgcccct attaataaag 180
 ccgccatgcg tgtgcccggc actgcacaac atccatcgtc catcgaccca cccaaccttc 240
 tcctccgccc cgcgcttcgc ctgggtaccg gcgtccgccc cgccccgtac c 291

<210> 43224
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-048-Q1-K1-G1

<400> 43224

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accgccgccc tgaggagctc cgcccgcccg ccgtcatccg tcaaatcagg tggccatttg 180

gtacaggcgt cggactccca ggaggatgac cgggtggcaag aggttcggcg gggggcgggt 240

gccgacgggg accccgtccc tcgctgggtc gtccgtcgtc atcgtegcct cctcctcgc 300

tggcgctcc atcgteccaca acatctacaa gcctgacatg accattccac ctgtggaggg 360

tgccgccggc ggcgagcgag gacaacaaag atgagctacg aatggctgga cactgcatgc 420

aagagaggaa gctgggca 438

<210> 43225

<211> 483

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-G10

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tttgatcttc taagaaatga caatgtcatg ggcgctgtga agactttacg atgtgacatc 120

acacccttg gtgtgaatag aaaaagagtg catgaactgt cgacttgat gatttcttgt 180

tctccacagc agttgttctt tgggttttca aaacttggca ttgattcttc tagttcaagg 240

tttaagcttc tagaggaatt gcaaaagggt ctccctccaa ctgttatggg gccagagagg 300

aggtagaaa atttagttga gcaagcactt actgtacaaa gagatgcttg ctacttccat 360

aattctgttg atgggttgtc actgtacatt gatcatcatt gcgggaaaga tcagctacca 420

tctcgcacgt tacatgtttt gcatgcacat catgatgaac tgtggtttgt ccaatttcaa 480

aca 483

<210> 43226

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-G2

<400> 43226

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acatgttgcg atggctgtgg cgttggtgtt cttggtgagc ggcgcattgg gcggctcctcc 120

caaagtcccc ccaggcaaga acatcacggc cacctatggc aaggactggg tggacgctaa 180

agcgacatgg tatggcaagc cgacgggtgc cgggtcccgac gacaacgggt gcggctgctg 240

gtacaaggac gtgaacaagc cccccttcaa tagcatgggc gcatgcggca acatccccat 300

cttcaaggat ggtctggggt gtgggtcctg cttcgagatc aagtgcgata agcctgtgga 360

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gtaccacttc gatttagcag gc 442

<210> 43227

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-G3

<400> 43227

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gggtgcctcc ggtgagggcc cactgtgggt cggggcgggt ccgttgccctg gacggcttgt 180

ggaagaagtc aggtcctggg ggttggtatc gagatacacg atcgggatcg agccatgtca 240

taccgatcca gtgtttgcat ccggagcatt aatcttgtgg gcaatggctc agattggcca 300

tggccgtacc cgtttgcccg ggtgcttgaa agccgttaga tctagatccg aggggtgaga 360

gcgtatatcc gacttaataa aactatggtc gttggatcgg gatccgaggg acccaaaccg 420

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<210> 43228

<211> 177

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-048-Q1-K1-G4

<400> 43228

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tcaaataatt ttgtcacatt tcgtgcgggt cagaaattct ttcaacattg gaatggagcc 120
aagaattgtc tgtaataatc aacatcagca ttataacagt atgtaggggt ttatctc 177

<210> 43229
<211> 423
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-048-Q1-K1-G5
<400> 43229

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aagcagccaa agaagagacg gatgcgcctg ccaaggcacc agctgctgca gccaccgagg 180
ggcctgctgc gggagcgccc atgacatggc cggatggcgg gcctgagtcc gtcaagatgg 240
tcatcaagaa ccccttcttt aaaagcgcac ctccatctgg tagcgaagac ggcttaccca 300
ttgacccac tccagaaggc agcatgaact aaattaaata ccaattacga gaccgaccag 360
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act 423

<210> 43230
<211> 332
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-048-Q1-K1-G6
<400> 43230

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tctgctctcc tcgaggtatg tgagggatct agctacccta gtggttgctt atggcattag 180
tatcaatctt gtcgaagtca catggaaatc aaaactcaag gcacagttcc ctagtccaaa 240
tgaatattca tctttcatgg gtgatttctc gactgcaact gggattgcaa ctttcacaat 300

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332

<210> 43231

<211> 147

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-048-Q1-K1-G7

<400> 43231

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tcattgagtat tttatctata gatgattttt cagtatgccc cacagtatta ccggtttta 120

aaatgatata ttaccttttt tatagtt 147

<210> 43232

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-H1

<400> 43232

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tgcacgtgca ggtgctggcg gcgatggcgg tagcatttct ggtaggcggg gcctgggtgtg 120

gtcctcccaa ggttcccccg ggtaagaaca tcacagccaa ctatggtagt gattggctag 180

atgccaaaggc aacatgggtat ggcaagccaa cagggtgccg cccggacgac aatgggtggcg 240

gatgtgggta caaggacgtg aacaaggccc ctttcaacag catggggcgca tgtggcaacg 300

tccccatctt caaggatggg ctaggttgtg gatcctgctt cgagatcaag tgcgacaagc 360

cagcggagtg ctctggcaag cccgtgggtg tgtacattac agacatgaac tacgagcc 418

<210> 43233

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-H12

<400> 43233

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catcgagtcc tacaatcctt cagtatacgg taacataagt aaactagagg attgtaggat 120
 ggatgtggtg tcggttggtg agatagtgtc ctattggtct aatccgggag ggtacttttc 180
 agaaggaaac gacataagcc atttcggttc aaggatatgag atgcatgctt gaacccttgg 240
 tcttggaact ggggggaaca tattcttaat atggaattat tgtcgatctg gggaaaaaac 300
 aatcaagctc atgaaaccca tg 322

<210> 43234
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-H2

<400> 43234

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 ttgcaggcag tttgttaaatt gggatccatt ctgctttagt gcaatgtgca aggcaagttg 180
 ttttatagag ggaaaatcct tcgatgggtc ctatgtaaag gggcacagat gtgaatcaaa 240
 tggatatcac gctgtgtgtg tttggtttct gtgtaaaaat ttggtatcta atgacatgcg 300
 gatctatctt cttttgggtc tctctg 326

<210> 43235
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-H3

<400> 43235

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 tgtatgagaa atacgaagat caagttgatg tcgtaggcga gaaggccctc attgagataa 180
 aaaagcagta caaagtgatt gatgcaaagt ttatctctaa gatcccaatg ttgtctgaga 240
 agaaacaaca ctgagagagg gtgctccaaa ggtctaattc agcacattac caatatatga 300
 aagtagttcc tttggctttg ctatatcatc atttagcaac ctttaagatg ataccataga 360

tattatatgg at

372

<210> 43236
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-H4

<400> 43236

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atgttcattt atttctgggc acatacttga aaccacatgt tgccattctt gatggcatta 120
ctatgagtgg tgggtgtacgg tttttcattc ctcgaacatt gcgggggtga actgatagga 180
caggctttgt aacttcataa cttcatattg tacttcattc tgatgc 226

<210> 43237
<211> 339
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-048-Q1-K1-H5

<400> 43237

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gataacaggc tgtaggaaac attaactttc acatgacatt gtatacccaa atgaccatt 120
atcaaagatc aatgttgatg atgancctga agcttttttt tacgtgaaat aaagctgcc 180
cgtgacatgg ccgacataaa taacgaacta tttatatacg gtttcaagcc catgacaaat 240
tctgccaaac gacgagcatc tgcccacatc aatggcttaa aaccaaggc tatatccaat 300
aataatcttc gagagatcac aaaaaggacc aagcttact 339

<210> 43238
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-H6

<400> 43238

tccaagatat atcacccctat gcatgttcct agtacttgtg gtacatggag atacaacttt 60
ggcagaaaact tgcaggccgc ttgttaaagt ggatccattc tgcttttagtg caatgtgcaa 120
ggcaaggtgt tttatagagg gaaaatactc cgatgggttc tatgtgaagg cgcacagatg 180
tcaatcaaat ggacatcacg ctctgcgtgt tcggtttctg cgtgaaaaat ta 232

<210> 43239
<211> 176
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A2

<400> 43239

ggtaccgcgc cggaattccc gggtcgacgc caccggtacg cctctatgtg caacagtagt 60
agagaaggca ttaataacttg ttgctcacia tgcctaggtt gtgttcttta gtccagacaa 120
gaaaacatgt taatccgcag ctgattaaga gcttcaactc ttgcaactac tctaaa 176

<210> 43240
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A3

<400> 43240

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gagtgaagagg gtccaacatt tgggtaccaga gctaggatgg agacgccgcc ggcaaaggat 120
ggcctcaaga tggtcgacgg catgggctcg acgagtgccg cgatggagcg cgtcatcaac 180
agcagctccg ttgagctccc gctgctgacc aaggcgaatt accacgagtg ggcgttggtt 240
atgcaggtct cgctggaggc gatggaactg tgggacgcgg tggaggccgt gtgcaaagag 300
cgttccaagg atcggcgggc aatggccgcc atcctgcgcg gagt 344

<210> 43241
<211> 122
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A8

<400> 43241

ctgcggtacc ggtaccggtc egggattccg ggctacgacc cacgcgtact tcgagatcga 60
accctgcgcg tactggatga acggcatcta cgatcccgt gtctgcaccg tccatgatga 120
ca 122

<210> 43242

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-B1

<400> 43242

tatggctctt gggccgtttg tttcacatac ggcacttggg ttgggtgtgaa gggactaatt 60
gctgctggta gaacatttga gaacagtcct gcaattagaa aggcattgcga ctttctgttg 120
tcaaaagaac ttccttccgg tggttgggga gaaagctatt tgtcatctca agaccagggt 180
tacaccaatc tcaaaggcaa ccggcctcat gcagtgaaca ctagttgggc catgctggcg 240
ctgattgatg caggccaggc cgagagagat ccaacgcctc tacaccgagc agcaaagggt 300
ttgatcaact tgcaatcaca tgatggagaa tttcctcagc aagagatcat aggagtgttc 360
aacaagaact gcatgataag ctactcccag tacaggaaca 400

<210> 43243

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-B10

<400> 43243

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atgtgctcgg acaaggagtc tttggctgtg ggcaccgaac tacttgtgtt tgggatggca 120
catattgtct tcagatacag tatactgaca aactcttggg cacgaggtga ggtgatgaac 180
tctcctcggg gtttattcgg gtcggcaagc gttggtgaga aggcataatgt tgctggtggc 240
actgattctc ttggcaggat ccttagctca gcagagctat acaactctga gacacatact 300
tggaacacctc ttcctagcat gaataaggca cggaataatt gctctggggt gttcatggat 360

ggcaagtttt atgtaattgg cgggtgtgaca aacaacaaca tggatttgac ctgcggtgaa 420
gtgtacgatg tgc 433

<210> 43244
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-E3

<400> 43244

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acaaaggcaa cagccatggc gggaaccggt gccctgtacc tcctcgtcgc ggctgtcgcg 120
gcgctcttag ccacgcctgc ggccgtggac gcggccacgc tggcggagat ctgcagggga 180
accgcgttcc ccgacatctg caccagcacg gtggggagcg aggcgcatac gcgcgggggtg 240
ttggacgcca tggcgggtgtt gcggatgcag gtggacgcgt tcaacaagcg caccgaggcg 300
gcgagggcgc acgtcaagga ggccgccgtg acggcgctcc ccaaggcgcg gacgggtgctt 360
gacctgtgca acaacctgta cctggacgt 389

<210> 43245
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-049-Q1-K1-F4

<400> 43245

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gactgcgcca ttttggcaag tgggataagg acaaggataa ggaagatgat aagaatgggg 120
ctgaggacgg tgaagatggt ccggttccga tttcagtctt catggttgca agtgtctca 180
aggagaagag agaaaagctg ttacaagaag ccagaggact ggatgatctt atcaggatat 240
tgaacgatgt aaatgggaac ttagatgcta agaaagcttg cgctggagca ttgaaacttc 300
acaaaaaata cctgaaaaag gtacaagcaa agaaacctta aacgtgccat ggaacacacg 360
tccccaatgg ggctatctgt accatttcaa catacacgac cattntctac acacaacttt 420
gagtga 426

<210> 43246
 <211> 268
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-049-Q1-K1-G2

<400> 43246

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 gtgtcagcgg gcgtgtgtat gtatggagtc ngccgcggcg gcggaggagg tgtgcgcgtg 120
 gtgggtgggtg tacgtgcttc gacgcgccac tgtttgtcgc ggcgatcatg tactaccctg 180
 ctgcgttttc tggttatcaa tgagatgatt tatttgattc ttttcagcct gggcactaat 240
 ataagcgcac acaattttac ggtaaaaa 268

<210> 43247
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-G4

<400> 43247

tgccgaccgg ccggaatccg ggtcgaccac gcgtccgaaa gccgcacatc caaataaacc 60
 gaggtactta gtcctaggca agccgaccgc cgacgtacga ccgcgccaac ccgagagaga 120
 ggatggatat gatcaagagg atcctcatcg ccgcgctcct tgtagtcgcc gtctcggcca 180
 ccgcagtgtc ggcctccacc gaggtcgccg tcgtcgggtgc cccagtcgtc ttcgagtcgt 240
 tgggtgttcgt cgaatccctc tctggcgccg tcgggtgccg cgccggtacc ggtactcg 298

<210> 43248
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-A2

<400> 43248

gtcctgaaaa cagccgagcg atctcctctc cctctgcctc tccgatccat tctccagcgc 60

agcgaagtaa acatgtctga cggggcaaag atgtcgtggc aggcgtacgt ggacgagcac 120
ctgatgtgcy agatcgaggg ccaccacctc gcggcggcgg ccatcgtcgg ccacgacggt 180
gccgectggg cgcagagcac ggcgttcccc gagttcaaga ccgaggacat ggccaacatc 240
atgaaggact tcgacgagcc atggcacctc gcgccgacag gcctgttcct cggacctacc 300
aagtacatg 309

<210> 43249
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-C6

<400> 43249

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cccttacct ctgttaagca tggcatgagc catgaccatc acacaagcct ccctcttgat 120
tacgaaacca gaaacgagat gcggcgatgg aacgccatct taagagttat tggttggcaa 180
gggcaacaac aacaagaacg tgggtaccaa taccaacagg gcagatcggt tactgcggt 240
ggacgtagta ttaacccatg gtgggtggggc cggccgcggc ggggtgcttc gggatcccgg 300
gcgctgctgc ccccatggcg gcggcgggcg ggtcggcgct cctgggctcg tcccgcggca 360
cgatg 365

<210> 43250
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-C7

<400> 43250

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tatctataaa gatggccaga cccgtgaaca tactgggggt gcgttaacct tgggaggggg 120
ggaaataatt tgctgctgca acaagatgga tgcaaccact cccaaatact ccaagggacg 180
gtatgaagaa attgtgaaag aagaatcatt ctaccttaag aaaggtgggt gcaaccctga 240
taaaaatgcc ttttttccc 259

<210> 43251
 <211> 351
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-050-Q1-K1-D2

<400> 43251

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 gtccccctcca tctcttttcgc cacgcgcgcg agagggggga gaggaacag ctagcagcga 120
 gcgaggaacg aagaggggtgc ttgcgacgtg catgtgagat cgggcgatcc cgatcgtegg 180
 ccggcgcgaa ttgaactaac gacgacgtac gtgcgaccgg ggccggcggtt ggattattcc 240
 ggcttgagca atgggcaaga tcgagtacgg cgtggtggcg cgcggcgcggtg tgggtgctggc 300
 ggancactac ngcgcgggcg cggcgggcggt caacgcgggc gccgtggcgc g 351

<210> 43252
 <211> 474
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-D5

<400> 43252

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 aaaaagaaaa tttatgaatt ggaaacaatt ttttgttctg ataattcaaa aaaacggggc 120
 ggcggttcta gaggatccaa gcggggcggt ccatactttc aaagatgggc acgagaaatg 180
 cctatcggtg aaagagtttc gtggggtgatt ggaggaatgg ttctcacagg tggacttatt 240
 tttatcacca aaagaaagag ctacagccat catcagaagc aagctggtat tggtaataat 300
 atgaaattga gaacgctgga ttctagagac cactcacaac aaacaaagcg gagctaggaa 360
 ggcatacgca acttagcggt actcagagga ttcttggtact tgtgcttcta cttttgtgga 420
 tcggtataat caacaactgg gaacaatata ttgtactgtg tgtgggtcca tctt 474

<210> 43253
 <211> 305
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-E10

<400> 43253

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gcttaccttt taaatagagg tggcatgggt acaataccaa gcacttgtag agcaaccaca 120
tgtaacttga aaaagaagga ttcttggaat attgctgggt caaaatatcg attgcttctg 180
ggacctaagg gacatcacga acaagaaatg gctattcccg cttggggtca tgaccctcat 240
cttctaagcc gaaagcactg gtgacaccag catttctgtg cttggcaatg ttgaccatcc 300
ctact 305

<210> 43254

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-050-Q1-K1-E11

<400> 43254

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caggcaaccg gccggtatat tagtagatct tcgatcgggc atccaagcta ataagtcgag 120
gagcagcagt aggtcgaaaa tggcgatgaa ggcgctagcg ctactgggtcc tectcaacct 180
gctgggttgtt ggtgtggcgc aagcgggtgga gttggagatg gagttgggtgc ctgctgatgc 240
aattgcgatg actatggatc atgagccgcc gcangagtgc gcgaccccggtgagcgtgga 300
tgaagcgtgc cgcggcgcgt cngaaacgca cgcggcgtg gcctacgacc actgcatggc 360
gtcgtggtggc gccgacccgc gcagcaagga ggccggcaac aagaacatgc acgcgtggc 420
ggcgct 426

<210> 43255

<211> 90

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-E5

<400> 43255

cggacgcgtg ggcggacgcg tgggaggacg cgtgggaaaa aaaaaaaaaa aaaaaaaaaa 60
 agggggaata aaaaaaaaaa aaggggggga 90

<210> 43256
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-E6

<400> 43256

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 gagagacctc agccctcagg caagcgcgac cgccgacgta ccaccgcgcc aaccgagag 120
 aaagatggag atgatcaaga ggatcctcat cgccgcgctc ctgtagtcg ccgtctcggc 180
 caccgcagtg ctggcctcca ccgaggccgc cgccgccggc gcccagccg ccttcgagtc 240
 gtcggcgctc gccgaagccc ccgctggcgc cgccggcgcc ggcgcgggca ccggcaccgt 300
 cgcgggggccc tccgccagcg ggcgcgtgcc cgccctcgcc gccgcgccc cggggtcct 360
 ctttctcttc tcgcctacta cctgcactaa gcggacggac ggactgacgc gcgcatggga 420
 ttggcatgca tggactgttg aacatctatt catgc 455

<210> 43257
 <211> 324
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-050-Q1-K1-G4

<400> 43257

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 gacctcgcgc gagtgctaga aaaatcactc gacttctacc gagatcctga ttagcaaagc 120
 agtactcga cctagcatat tagtattcat ctcaacaagg aatcctaagt tcatgcaact 180
 agaggtttca agcaactcct acacttaagt gcacattaca atcctacaag cattaagtgt 240
 agtaaagtag catataataa tacgggtgatg catataaacc agggcttgcc tttaatagct 300
 ggggctgcgg ngagatcctc gata 324

<210> 43258
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-050-Q1-K1-G8

 <400> 43258

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 cctcggccta acatgtttcc aatggagctc aaacaagtgt ctggtgggac acctgagctt 120
 gacggggggg cgatagcaca gattaagtcc ggcaacatta aagtatttcc tgcaattcga 180
 aatttccaag aatatggtgg agagtttaca aatggtagga ttgaatcatt tgatgttggtg 240
 attcttgcca caagttataa gagtaatgtt tcttattggg tgaaggagaa tgaatttttt 300
 tcacagcaaa atggatttcc aaacaaacca tatgaatgga aaggaaagga tggactctat 360
 gctcctgggt tctcaaggcg gggcctactt tgggtgacta ttgatgc 407

<210> 43259
 <211> 308
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-050-Q1-K1-H12

 <400> 43259

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 aaactaaaaa atgaagtctt gctagctatg gcctccgaac aacctgacga cacaaggaga 120
 caacaggtcg acgatgacgc tcctggacaa cgngattgaa actatagcat ctgcattggc 180
 gacgctggtg ccattccctt actattgagt gttctggaga catataatct gcataccag 240
 gaacatgctg tgactgcact tgtgaacctc tgtatacacg aagataacta gacgagcatt 300
 atatcatc 308

<210> 43260
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-050-Q1-K1-H3

<400> 43260

aagccgtcgc cgacgcccga ctctggaag ctcaaggaga tcttcgccac gggcatcgtg 60

ctagggacct acatggcgct cgccacggcg ctcttcttct acctggcgca cgacaccgac 120

ttcttcacca acgccttcgg cgtgcgggtcc atcaaggaga acgacaagga gctgatggcg 180

gcgctgtacc tgcaagtgag catcatcagc caggcgctca tcttcgtgac ccgggtcccg 240

agctggctct tcgtggagcg gcccgggcg cgctggtga tcgccttcct ggcgggcgag 300

ctgggtggcg cgtgcacgc cgtgtacgcc aactgggagt tctgcaagat gcanggcac 360

ggctggggct ggggtggcg catctgg 387

<210> 43261

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-050-Q1-K1-H4

<400> 43261

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ccttgctgag cgtggcccta gtgggcctgc tctctgccca cctcgccacc accggctccg 120

cccaccagaa agacatccac gtcctcggca gcgtcgacgg ctccagcgac ggcagcagcc 180

ccgagtccga aggccgcgtc gtctacggcg acatgaagct ggctgatacg gaatccgatg 240

cgccggcgcc ggcgcggcg cgggggcccgt cgtccggttg aactgagaag cgtgcgtcca 300

gccaaagcaag gtggtcaaaa ccgagaacta attaagggt cgattgtgtg tccggctact 360

actgttcttg ccataattat atatagatac gcanagtgtg gccaaagccta cccacatgca 420

tgctattgca tgctccgaa tatata 446

<210> 43262

<211> 317

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-050-Q1-K1-H6

<400> 43262

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ccagcacaaa aaagggattt gctagctatg cgtanaacga atgacgacgc agggcgggcaa 120
caggctcgacg acgacgctgg tcgccgccgt ggacgtagtt ctggccgtgg cggcgggcgtc 180
gtccctggcc ggcgtggcgt ccgcgagaaa tgcggggcggg ttcgtggtga cggggcgcgca 240
gtactgtgac ccctgccgcg ccgggttcga gactaacgtg ttcaggaacg tggcctgcgc 300
gacagtggaa gtggtgt 317

<210> 43263
<211> 109
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-H4

<400> 43263
ctgggtatca ttttagtgca tgatgtttta gtatagaaac catgatagtg agattgacaa 60
gaggtatctg cttaaaaaaa aagaaagaaa agaaaaaaa aatagaaaa 109

<210> 43264
<211> 472
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-B4

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gcacagcggc aacatggggc tcgacgacgt catcgagatc gccaggacca tgaggcacag 120
gtccatggcc aaggaattgg ccggcacctg caaggagatc ctcggtacct gcgtcagcgt 180
cgggtgcacc gtcgacggca aggaccccaa ggacctgcag caggagattg acgacggcga 240
ggtggagatc ccgtccgctt aagaaggatt ggtgtccagg actgtgttat ctttgctgct 300
gaagccattt tctctgccta gattttctca tattttattg aggtgggggt ggacgtggac 360
gtggaactat ggaagttatc acagcggagt tttgcttaga aactttgtca tgctttaagt 420
ctgagacaat tttatgaaca ttcctaagta caatcgaagt taccagtgcc tg 472

<210> 43265
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-052-Q1-K1-B9

 <400> 43265

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 ttacactgat ttagagacat tcgaacaatc aaaatgatct gcattgtatt tacacaacca 180
 ccttcggatg gagaaacgcg ggctctcatc actatgcata ccgaacatcc aaaggctgat 240
 ccacacttaa tcaactccat aactggcaga aagaggtgga ctgggtgcac ttcgaacacc 300
 aaatgatgct caaatgcatg tactagctaa tatcggagac ggagaactac ctgcagctca 360
 taactaaaat gattgaatgg ga 382

<210> 43266
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-052-Q1-K1-C5

 <400> 43266

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 cttcccggag cgcgcggcca accgggtccgc gatcgacggg gccaccgttc ccggggacgg 120
 catggcgtag ggtgccaagt tcacgttcca gttctcgacg cccgtgcagg ccgtggtcga 180
 gcccgacct aaggtgacca tgtacgcgcc accgttcacg acgcacgggt actccatgaa 240
 ccagcggctg gtcgtgctct tcgtcaccgc gggtcgtggt caacgggcag aggtacacga 300
 taacggtcga cgcttcggga aagcctgagc tcgcgccgcc ccggtatttt gaggggtacg 360
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<210> 43267
 <211> 279
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-052-Q1-K1-D1
 <400> 43267
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 ggggtgttatc gttaaacttt taacgggtcat tctatttcaa aaaaaaaaa anaataataa 120
 aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa 180
 aaaaattnng gggcggccgt tttaaaaaat ccaagcttac ttaccctgtc atgcaacgta 240
 taattttttt ataagggaac ctaaaataaa ttcactggc 279

<210> 43268
 <211> 488
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-052-Q1-K1-D5
 <400> 43268
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 ggatattggg gccataatt acgtgctggc gggacttctt cgaagcaatg tactctggcg 120
 gaagcatgat ggaaggTTTT cttcggggca ctggcacctt gtttggaact tatgtgggtg 180
 gtttccatgg tgaggagcgg tttgggaagc tagggtatct tgcaggaagc catgtcggaa 240
 gctgggggtg aggaagaatt ggattgatga tttatgatgt cataagcgga ctgaaatata 300
 tgttcatgtc tgtccaacct aagtatgaat catcgtcata tgcatacagaa gatgggtccag 360
 aatacgcaaa aagatatata aaccaagagg agccaacata ctatgaacca tcaaaggaaa 420
 agcaagaaga atcaaaatgg tttcggttgt tctaaatata tgaaccgaag tgtcccgtt 480
 aaactcaa 488

<210> 43269
 <211> 461
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-052-Q1-K1-E8
 <400> 43269

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 caaccggtgt ctgggtcgca gggcagaggg gcgttggtgt ccgctggtgc caagggtcat 120
 ccgctgcaa gcagctggtc gcacgcgtcc tcgaatttcc ggaggttctt cgccgaagca 180
 ccctgcgcgc ctgcttcgcg gtccgacgtg gtcggcctat ttgggcaccc aattgaccgg 240
 agaagaacag gtagcccagg aggagccgca caacgaggag ttcgacttga tctaggtggc 300
 gtctcctagt cgactttgtg gcgccaagga tggactttag ttcgctttat atttatcttt 360
 tattttgcaa gacttaagct atgtaataaa tacttttatg atattatgac atttatctct 420
 atacactctg ntatttatgt gttgtcttct ttggcgcata t 461

<210> 43270
 <211> 76
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-052-Q1-K1-F10
 <400> 43270

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 ggggtggtatg cagatc 76

<210> 43271
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-052-Q1-K1-H3
 <400> 43271

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 tcggcgggtc gtgcgggccc ccgaagggtgc cgtccggccc caacataacc accaactaca 180
 acgggaagtg gctcaccgcc agggccacct ggtacgggtca gccaacggg gccggcgctc 240
 ctgacaacgg cgggtgcgtgc gggatcaaga acgtgaacct gccaccctac agcggcatga 300
 cggcgtgcgg caacgtcccc atcttcaaag acggcaaggg ctgtgggtca tgctacgagg 360

tgagatgcaa ggaaaaacct gagtgctcgg gcaatcctgt cacggcggtc atcacagaca 420
tgaactacga gcctatcgct cctaccacnt cgacttgag 459

<210> 43272
<211> 77
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-H6

<400> 43272

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attgtccagt caaggga 77

<210> 43273
<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-A9

<400> 43273

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tagtcaaatt ttggagcgcc tgaactgttt tgctgttata taacttagtg tattgataaa 120
ttcgactatc acatctggat tattctgctg gataatgtcc gtgtctttga tgtttgtgtt 180
aaattcct 188

<210> 43274
<211> 104
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-C12

<400> 43274

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tgcttttgtt catgatatta atatatatga tgaatatttc ttgc 104

<210> 43275
<211> 314
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-H7

<400> 43275

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ctagaggcgc cgcttgacgt cgacatcaag aacggagggc gcgtcgtggg cctcaacacc 120

cagaacctgc cgctcgtcaa ggaggtcggg ctcggtgctg accttgtcag gatcgacgcc 180

cactccatgt gctcgcccg cttcttctgc gacttcgcct accaggtcac ctacatcgtg 240

cgcggaatg gccgcctcca ggttggtggg atcgacggca cgcgagtgt cgagaccgc 300

gccgagggag gctg 314

<210> 43276

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-A10

<400> 43276

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gggcaagtta atgcatgctg gactcacaag atgactacta aggaactaga tacaatacgg 120

tttgccggtt ttctagtttc agttattcat ggaaggtagc atatcattgc acaattgtgc 180

catgcaaaac gtctagcaga aaggcttctt cctgttgcaa gaatggtagt acctcatggg 240

gcacatctag taagccatga aagaccagac gaggtgaaca atgcacttat ggatttgata 300

aaggccacca aatctgcgat aaaacctgaa gagtggtagc cccagcccga gaacacgttg 360

gaaaccgggg cgctcatttc tgcgagacc atcaacgtca cggtgcgaac agatg 415

<210> 43277

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-B8

<400> 43277

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atacacatgt cgatccttaa ccgaacatcg gcaacatcta tctgtgttcc tggacgccaa 120
 aaatagcaag tggcaccata aac 143

<210> 43278
 <211> 501
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-D7

<400> 43278

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 tcttttgagt atacaggctc tactgagtgc gccaaatcca gacgaccctc tttcggataa 180
 cattgcaaag cactggaaag ccaatgaagt agaagctgtc gaaacagcta aggagtggac 240
 tcgcctgtat gcgagcgggtg catgagaacg cagtgatgtt cttgatgtaa taacccatca 300
 tacttgagtc ctcatctatt gccatttgct tgataaaaaa taggctggag atatttgcca 360
 tggaatgaag tctctacatg actatcactc tgaattgctt ggttggacac ctgtggtcgg 420
 ttccctttac cttggggcac ctttgacaaa tcagtatctg tggtagaact tgctgatact 480
 ttaatatatt tgttacttca t 501

<210> 43279
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-E1

<400> 43279

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 cgttagattt tttgttggtt tttcgttggt agatttttgg ttttctttgt ttggttgtga 180
 atatgtagaa tgcaggatct actatgcata tttgtatttt gtttttagca ttgagctact 240
 taagatttta aaaaataaat atcgaatttg tccta 275

<210> 43280

<211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-054-Q1-K1-E11

 <400> 43280

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 cgccacctcc agaactgaag tctctccac caccaggccc agttagctca ccaccatcag 180
 cgccaaagtc gtcacctaca cctgctcctg taagcttgcc acctactgaa gtaaagtctt 240
 acccaccacc agcaccgatt agctgtacac cacctgcggt caagtcacca cctacaccgg 300
 gccctatgag ctcaccttct acccctgtga agtctgcacc ttcagcagcg 350

<210> 43281
 <211> 188
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-054-Q1-K1-F3

 <400> 43281

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 aattcattaa cgatgattag agttcttttag aaaatgctgt atgtaaatct ttagggatta 120
 ctgtgttatt gttatattta tttaacatga tcttttggtg aagacttggt catatggaac 180
 tttgggta 188

<210> 43282
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-054-Q1-K1-F6

 <400> 43282

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 ctccatcacc accaaactca acaacagcca gctcgcgaaa ataataaga gccgcagcat 120
 ggcattcatg gccgcgctct tgggtgctagc cctcgcgcta gtggcggccca ccgccccaca 180

ggtagcggag gcaaagaaga agagagcggc ggagagcggc gaggcggcgg aggcgaagaa 240
gatccaggac gactttctgt cgacgctgtg cgagggcaag aaggggacgg acctggtcgt 300
gtgcaaggag tcttgcgcg tctcccagca gtccaacctg gggctgtacg gcaggatcca 360
gtgcaagggc aagtgcaccg agcagaaagg catcacggc 399

<210> 43283
<211> 480
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G1

<400> 43283

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cctccgtcac ccaccacat ccggccagcc caacgaaaat gtcgcgcgcc acagctgcgg 120
tcctcttcta catcctcgcc gtcgctgccc tcagcgcggc cgaggcaccg gcagagtcac 180
cgaaggcagg cagtctgcc aaggcaccgg ccgagtcacc gaaggcaggc agtcctgcag 240
ctcctgcaa ggcaccgag tctgctgcca cgagaactgc ccccgctaag gcacctcaag 300
ccgtctccac ccccgccgct gccgctgccc catcgctgctc gtcgtctagg aagtctggtc 360
cagctgccgc gccgaccacc gtcggctcta caccgtcttc ttccacggac gaggagtga 420
gccctttcgc gtcggcatcc accggcgaag gggcgttccc tggcgctgat gggcctgctg 480

<210> 43284
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G6

<400> 43284

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tctcgctgaa cgactacctg gctgtgactg cggcgaagca cgcgacattc ctgccgact 180
ccgcggggcg ctactccaag aagcggttcc gcaaggcgca gtgcgccatc gtcgagcgcc 240
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tcatgaagca caccctggag atcatccacc tgctcactga cgccaatccc atccaggtgg 360
 tcgtggacgc cattatcaac agtggaccac gtgaggatgc caccctgatt ggttcagctg 420
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<210> 43285

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-H7

<400> 43285

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 aaaaacgccc atggaacctc cgattaaaaa atataaaaaat tggaaactgt actgcatgct 180
 gttccaggaa acccaatgac caaatggaca aacacaaaat tgcagaaaca aaaat 235

<210> 43286

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-A10

<400> 43286

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 ctagcggcgg cggcgaggac gtggggtcgg cgggtgcaggt cgccaagaag aagtcggtcg 180
 ggttcatcct gcccaacctg gaggtgaagt tcgtggaccc cgacacgggg cggtcgctgc 240
 ccaagaacac gccggtggag atctgcgtgc ggagccaggc cgtgatgcag ggctactaca 300
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<210> 43287

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-A11

<400> 43287

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tgggtctgtgg aaattgggtc gtctggaaag gtgctccaac aacttcaactg atcactattg 180

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catctttttg tggggggcact gtaattgggtc aagcgcattg ccctttgcac ttggataacct 300

ttgggttcat tcaactggag tgcacgggct ggtctaattg gtcagcaaca agttagtgca 360

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gtagatatt 429

<210> 43288

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-B6

<400> 43288

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ccatgacgac gtcctagtct tggctcttcc ttgctattca agctactgcg ctacgcgccg 120

tcgtcatcgt cgtacaaccg actcgggctg ggctcgggtgc accgaccttc gcctcaactgc 180

gcccgcacgc acatgcagcc ggccaagggc actaaaccac actcggcaac ctgtcgcgta 240

gcctgactct gcgtatgctc agccagtact ctgcgacttg tggcagacga ggttgcgccc 300

gagctgcacg ca 312

<210> 43289

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-D2

<400> 43289

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ggcaatggag cgtctgatag cactttcgat gatcacgaat ggttggtgat accattcgag 180
cgctctggga agcagacaat tcttatacat aagggtgact tgctttagg 230

<210> 43290
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-E3

<400> 43290

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taaaagccag tgcattcgga tgtcacggag agacctatgg ccgcaaggca ctggcgctcac 120
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tcgtcgctga tgctgaagtt ggtgctcaac actcacagtg ttatgcagat tggtttgcac 300
atgttccagg acttaacgat ctacacccat actcttcaga acatgccctt aggcttgct 359

<210> 43291
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-F3

<400> 43291

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atctcaaaga gtcgccagcc aaaaccttca cctcgtatag caaggagccg attaagggcc 300
ccatctccgg ccgcttcgct gtgaaagggtg gtggctaccg cgtcgt 346

<210> 43292
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-H3

<400> 43292

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taggtcagcg caggagcct gcctacattg cttcagtaac attctggccg ctgcttgtct 180
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ttttccacgg gtcgtcacag cttcctgtgt acagtatcat tcaccgatca tcagcaaaca 360
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<210> 43293

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-A5

<400> 43293

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tgcgccaccg cgcaatcggc ggtggcgctt ctccgcgcgc gctgtgcaac cacgctgtac 180
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gtcaaggagc tcgtcgcccg cggcgctgct ggtggtggcg gcacggcccg cggtgccaag 360
tcggctgcgc tccgcgactg tgccagcacg gtctcgtc 398

<210> 43294

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-D4

<400> 43294

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gtgttcatca tggacaactg cgaagagctg atccctgagt ggctgagctt cgtaaagggg 120
attgatgact ctgatgacct tcccccaat atctctcgtg tgactcttca tcagaacaag 180
atcctgaagg tgatcattta gaaccttggt aagaagtgtg tt 222

<210> 43295

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-D5

<400> 43295

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taatagcgtt tgactgtctc tatgttaaata ttggactata gactacattc tacactcgca 420
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<210> 43296

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-F2

<400> 43296

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ttttatttac gtggtttgcg attgggttaat tgtttgtttg ttcgttcggt tcgtggctcg 180
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<210> 43297

<211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-G1

<400> 43297

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gtggagctgg agttaataac ttaagcttac cttctggctc ctatgggagg agcaattcaa  240
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ttgacgtgcc ttctttcagt catgatcttg gaaatgttga tccgaatatg aaatcagaca  420
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<210> 43298
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-H5

<400> 43298

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aggagttcca agtcaaggat ctctgtcacg cggactatgg tcatcctcga cattgagctg  180
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gagactctca ccgatctcgg cgccaatgta cgatggtgct catgcaacat cttctccact  360
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<213> Zea mays
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 gcatatgggg taatctccca atggatgctg tgccactagg ggtaaaactta aggtgaattg 180
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<210> 43300
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 <212> DNA
 <213> Zea mays
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 agcctcatcg gggttgatgt tcttgcacag ctcttgccg ttgaagaagt cctggagcag 240
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<210> 43301
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 <212> DNA
 <213> Zea mays
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ggacgcgtcc ctactctcca gctccgcgca ctccgacctc ctccaggcgc gcgaggaggt 180
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 ggtggaggag taccatgcgg ctgccggcgc cggcaagaag ctcaacttgc tcccgcaagt 300
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<210> 43302

<211> 127

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-H8

<400> 43302

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<210> 43303

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-A1

<400> 43303

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<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-A10

<400> 43304

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gacctgtata ggatacaatg agtggtgaat tggctgatca acagattttg cttctcgtaa 180
ggcatcatgc acatcgagaa gaggaattgg ctcaatcaca gaggcataatc ttagcactac 240
tactagaaat tgaatagctc gagcgtgaaa atctgtttca tgatcaacag gaatcaatgt 300
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<210> 43305

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-A2

<400> 43305

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cttggatcgt gaggtacta ctctgctgt ttgcagttgc atagaactgc atcgccgaa 180
gtgtacagca cggtttggtg gccttgcca tgcgctacgg tagggtagt agacgagcag 240
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<210> 43306

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-A3

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gctgctgagc tcacacggat tcacacagaa ccaactaacc ttgtggaagt acccatcaat 300
ggtaaagatg gctgaactca gtggccatac ctctcgtgtc cttttcatgg ctcaaagccc 360
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425

<210> 43307

<211> 374

<212> DNA

<213> Zea mays

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tggtggtggc ggcagtgata gatgcatcaa gttctggaac acacacactg gagcatgtct 180

gaactctgtt aacactggat cacaggcttg tgcccttcta tggaacaaac atgagagaga 240

gctgctgagc tcacacggat tcacacagaa ccaactaacc ttgtggaagt acccatcaat 300

ggtaaagatg gctgaactca ttggccatac ctctcgtgtc cttttcatgg ctcatagcc 360

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<210> 43308

<211> 296

<212> DNA

<213> Zea mays

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tggtggtggc ggcagtgata gatgcatcaa gttctggaac acacacactg gatcatgtct 180

gaactctgtt aacactggat cacaggactg tgccctttta tggaacaaat atgagagaga 240

gctgctgagc ttacacggat tcacacataa ccaactaacc ttgtggaagt acccat 296

<210> 43309

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gccagcgagt gaggccgtgc gcacgcagcg gcggcgcca gggcccaggc cccaggggat 300
cggcgtgcgc gcgtggcggn gtagtctctc gcgcgcgtac atggcagtat gacacgggat 360
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<210> 43310

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-A7

<400> 43310

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gaggctgctg ctcccagga gtcgccgcg gacgagccgg aggctcctgc tcctgctcct 180
gctgggtcccc acgagccggc cgccgaggcg gaggctgctg ctctgagga gcccgagaat 240
gccagcgagt gaggccgtgc gcacgcagca gctgcagcca gagcccaggc cccaggggat 300
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<210> 43311

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-A8

<400> 43311

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gaggctgctg ctcccagga gtcgccgcg gacgagccgg aggctcctgc tcctgctcct 180

gctggtcccc aggagccggc cgccgaggcg gatgctgctg ctctgagga gcccgagaag 240
gccagcgagt gaggccgtgc gcacg 265

<210> 43312
<211> 61
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-A9

<400> 43312

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<210> 43313
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-B1

<400> 43313

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atcactgccg tcaactga 317

<210> 43314
<211> 56
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-B10

<400> 43314

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<210> 43315
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<212> DNA
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<223> Clone ID: LIB3076-022-Q1-K1-B12

<400> 43315

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<210> 43316
<211> 236
<212> DNA
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<223> Clone ID: LIB3076-022-Q1-K1-B2

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gccgtgccgg caggcggttca cgcggaccca gcgagctgc cgctgatgtg ttcggagatg 180
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<210> 43317
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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atctgcatct gtgttaatct cccattgtat gctgtgcagc tagtgtaat cttaggtaga 180
attgtagctg tgggtgtggt atcgcaattc agagctgaag cctggcggtg aaattccagc 240
taagggaaag aaaattacac tgcgtgttca aaatgcacaa gaccttactc gtgatgtcat 300
aaagtcagat tcagctagcg taaaagtacc tgaacttgag ttggaacttt catgtggaac 360

gttgggtggt atggtcacaa ctgttgaagg ttttaattgtg aaaatatgtg aggctctgga 420
gagaatacat ggatttcaat tangcgatag tacactggaa tgg 463

<210> 43318
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-B3

<400> 43318

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gctgtacctc ctggcggtta cgctgacccg gcagagcacc tattgatgac tctggcgctg 180
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<210> 43319
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-B4

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gtgtacttgc tcacgcatac aatcactcaa gctgtgtaat tcattctctg ggataagaat 180
acttctatgt gaatattttg gtctaattt 209

<210> 43320
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-B5

<400> 43320

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ttcgcgactt cgtcggagcg tgcaagaaga atccttcgct cctcgccgac cccaacctct 180
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t 421

<210> 43321
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-022-Q1-K1-B7

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gttatagaaa aaggataagg agaaacttgc acgtttgttg gatcaccaga aacactatct 240
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<210> 43322
<211> 339
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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ccggctgttg acacaacggg gtgcagcagg aaaagggcta ggctgncgga gctgctcaac 240
gccagggaga tgtaccgcgg cngagtcatt ttctccaata aagcccgcag ggtcacgttc 300

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339

<210> 43323

<211> 119

<212> DNA

<213> Zea mays

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<400> 43323

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<210> 43324

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-G1

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cacagttaca gtggaaactg taccaagcca acaaagttca gcacttgacg cctgatggaa 180

ctaatagggc gcccttgcta ggtggagttc cttctgctgg ttacctagac acgacatatt 240

atgggtatga cagcacaggg gcacaatttg catggtatga tggctctgct aatgcaaattg 300

gacagcaaag aacaaccaca actaatcgtt ttccatcctc gtcattcagt ggtaatgggt 360

catctgcaat atatcagaac aagagctcca ccacgcagca aatgggtatg cagaatagaa 420

gacctacaac taca 434

<210> 43325

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-G10

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<210> 43326

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-G11

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atcactatga tcgggctcac gtgctgaagg ctgcgctttg gtaacaacac catagacatt 180
atcattatca aaaaccgctt attgcatgtc aacatgctaa ctgaattcct acttgacagac 240
tgcggtgtaa aggctagggg atatacgaca tgacagtatg tatgagatct cctgca 296

<210> 43327

<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-G12

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cctcaggctg ctttctcctg gctcggggtg ttctctctcc ttctggttcc agacggactg 120
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<210> 43328

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-G2

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<210> 43329
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-G3

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 <211> 462
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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 agaaaagcta ctacataaca gcaattgctg gatcatccaa cgggagctca ttggttgtca 180
 tgtccaaagg aactccttac acccaacaat catacaaggt tagcgagtcg ttccttaca 240
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 atcgctgggg cgtagtcatg tcaaggaatt catggttctc tactcaggtt gtagagttgg 360
 atctcctgta cccagcgag ggcattccacc ggcgctggga gagcggctac aggataactt 420
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<210> 43331

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-G5

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 acagttacag tggaactgta ccaagccaac aaagttcagc actgacgcct gatggaactt 180
 atagggcgcc cttgctaggt ggagttcctt ctgctgggta cctagacacg acatattatg 240
 ggtatgacag cacaggggca caatttgcatt ggtatgaagg ctctgcttat gcaaattggac 300
 agcaaagaac aaccacaact aatcgttttc catcctcgtc attcagtggt aatgggtcat 360
 ctgcaatata tcagaacaag agtccacca cgc 393

<210> 43332

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-G6

<400> 43332

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 tcacaggctc tgtcacggaa atccgcacag cactccaaaa ccgatgcacg ccatcacaac 180

catccggtgc tgagccctcc aggatgcatg atgaacatac cttgctggcc tgtctgatga 240
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 ggaaacgata atcccactac acacaggct 329

<210> 43333
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-G7

<400> 43333

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 tcacggttac agtggaaactg ttccaagccg acggagctta cgactgacgc ccgatggaac 180
 ttatatggag ccgttgctag gaggcgtgac ttctgctcgt tacctaaaaa ccacatatta 240
 tggagatgac cagctcaggg gcacaatgtg catgggatga tggatctgtt tatgcaaattg 300
 ggcaatctag aacaaccaca 320

<210> 43334
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-G8

<400> 43334

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 taaaagaatc attcatgtcg acactatcta cctgaacgga gatttcatgg tagacctcac 180
 caatgatgtg tacggcacgg tcaactgcgc ccattcagat gtcacattat ctgtggctgg 240
 gctgacacag ctgcctaaga gcatgtgcag gcagggtctat ctaccggcag tacatgcacc 300
 actgtatgat gggctacgag ggctcacatc aacgccatat cgagcgcacg atcgtttagat 360
 catactacca cgacc 375

<210> 43335

<211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-021-Q1-K1-H11

 <400> 43335

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 tggttcatcc ctgcatattc agaagaggat ctgagaagaa ttccagctct acaggggtctt 180
 gattatcctg tcagtgaagc cagattttga tggccaggaa ttgtaatggg gcaattctaa 240
 cagtgtcctc gtcagatacc tcagtattgg acatctactc atacaactgt cagcattgct 300
 gattgcccta tgcaaggcat ctagtgaat gtgcacaaga tgattgtagt aatagtaacc 360
 atgagttatt catctggtgc acttcatgta tgtg 394

<210> 43336
 <211> 323
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-021-Q1-K1-H12

 <400> 43336

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 tggttcatcc ctgcatattc agaagaggat ctgagaagaa ttccagctct acaggggtctt 180
 gattatcctg tcagtgaagc cagattttga tggccaggaa ttgtaatggg gcaattctaa 240
 cagtgtcctc gtcagatacc tcagtattgg acatctactc atacaactgt caacattgct 300
 gattgcccta tgcaaggcat cta 323

<210> 43337
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-021-Q1-K1-F4

 <400> 43337

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 ccagaggctc gtcagggaaa ttgcacagga cttcaaaact gatttgcgtt tccagagcca 180
 tgcggtgctt gccctccagg aggctgctga ggcatacctt gttggcctgt ttgaggacac 240
 caacctgtgc gccatccatg ctaagcgtgt gaccatcatg ccaaaggaca ttcagctggc 300
 aaggaggatc cgcggcgaga gggcctaata gccacctcaa acatcgtgac aaaaacatga 360
 aatcctgnng ttattgttaa tctggtgcc a tttgtaggac atatgattag gggatatgtt 420
 tgtggatcgc aagtttctct tct 443

<210> 43338

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-D7

<400> 43338

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 ccaacattca ctgcgcatcg catctacgcc gagaacgcca tgctcaagcg caccgagcac 180
 attaactacc tccgtcttac ctctcgcta gacacctct taaccgcct tttacacgca 240
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<210> 43339

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-D8

<400> 43339

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 aagggcaaca tggacggcgc ccgcatctac gccgagaacg ccatgcgcaa gcgcaccgag 180
 cacatgaact acctacgcct cgcctctcgc ctgcgacgag tcgtggcccg tctcgacacg 240

caggccaaga tgcattgtcat cggcaagtcc atgcagtcca tcgtcaagtc gctcgactcc 300
tagctcgaca cgggaacct acagaagatg tccgagacca tggagcaatt cgagcgccag 360
ttcgtcaaca t 371

<210> 43340
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-E1

<400> 43340

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tgattgacaa cacaatgtgt cgaagggaac ttgacacact gtgtaggggt cttctgcaat 180
tccttatcgc atataacatt gtgtctgaat tcaatatgca tgatatcatg agtatatttg 240
ctatggttca caaagggttac acgaataaca acattgccaa actgtgcaag gatcttgggc 300
ttgcagacaa ggccacaggt ttaattgact atacgatcgg aaatgggcaa catccttaaa 360
tttttcattt ggtgcaaaat ttaatt 387

<210> 43341
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-E10

<400> 43341

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tcgtctgagg tgctccattg gattggatcc ggggaaggaa gaggaactgg ttgaccgttc 180
ttcattacag tttggtcttt tgcaggattc ttaaaagttg gacggcgctg ctagtattcc 240
atgtttcgcg tttgcatatt ggaggacgtc tgtcgatgta taaaatcctc gggcgcttgt 300
gctcggcttg aggaaatatc cttgtacggt tgtaccctgg acccgctata gctgggtt 357

<210> 43342
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-021-Q1-K1-E11

 <400> 43342

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 gtccacacaga cgtgaacaag gcgtcaagg acgaccagtt cagcgagttc aagcagctgc 120
 tgcacgacac gcgcgtggac acgcagatca acgcgcagct gacggacagc tacaacgggc 180
 tgaccatcat ggcgccacc aacgccgct tgcacaagat gaaggccggc gtgctcaacg 240
 ggctgtcgcc gcaggaccag atccagctcg ttctctactg cgtgctgccc cgcttctaca 300
 gcctctccat gtcggcacc ctcgacggca aggtcaacac gcagggctcc ggccacgacg 360
 ggccctacag gtacgaacat cagccggtcg gcaacaacgt caacgtgttc acgggcgtca 420
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<210> 43343
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-021-Q1-K1-E12

 <400> 43343

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 cttgatgtgg aagatgaaat tgaaggaagc aatagtggaa agatggtgat gatcaaggcg 180
 tgtggatgct catggtcttc atattgctga gttcgatgat ggttgatcat gcataaaagt 240
 tgtaacctat gtggttgaac ttgtgctggt gaacttgatc tgtttctntt tatgctatct 300
 ggtttgtgaa ctcaacttat gtatgaactt attctatatt tgaatttcta tgtcaagtct 360
 gaaaagacgt ttcaacattc gggttaaac 388

<210> 43344
 <211> 381
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-E2

<400> 43344

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tccgttgctg cccctcccga agaaggccgg caagatcctg gtcgccggca gccacgccaa   120
cgacctgggc aaccagtgcg ggggggtggac gatcacgtgg caaggaagca gcggcaacac   180
cactgccggc acgacgatcc tctccgggat cgaggccacc gtggacccca gcacgcaggt   240
ggtgtactcg gagagcccgg acagcggcgt gctggccgac aagtacgact acgcgatcgt   300
ggtggtcggg gagccgtcat acgcggagac gttcggcgac aacctgaacc tgacgatccc   360
ggcgcccggg ccgagcgtga t                                     381

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<210> 43345

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-E3

<400> 43345

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gtactctttg ggtcatccca cgatggtacg ctactctggg ctcgaggagac cggagagaaa   120
cgctcgccga catggtgtgc agcgcctatc tggacatgaa gtgtatgact cttctcgact   180
gcgtcatcgg ctataacagt gtgcccatat tctacatcag tgacatgac accacagact   240
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<210> 43346

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-E4

<400> 43346

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cggcggacga cccgctgctg cgtccctggc agctgcccta cccggctgcc gccatgcca 180
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 caacattcac atctactacc tacctggctg ctttgagaat tacagggcct ctactatctg 360
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<210> 43347
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-E6

<400> 43347

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 cgcgcgccgc catggcgctc agcgctctc ggttcatcaa gtgcgtcacg gtcggcgacg 180
 gtgccgtggg caagacatgt atgctcatct gctacaccag caacaagttc cccactgact 240
 acatacctac ggtgttcgac aatttcagtg caaatgtagt tgtggatggc accactgtga 300
 atttgggcct ttgggatacc gctgggcagg aagattacaa ccgcctgaag cctctaagct 360
 accgaggtgc agatgttttc gtgcttgcac tctcacttgt gagccgagct agctatgaga 420
 atatcatgaa gaagtg 436

<210> 43348
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-E7

<400> 43348

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 gcgcttccct cagtggccca tcactgtggt ggggctcgtc ctcatggctg tctccctcat 120
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gttcttcgtc gtcttcgcgc tctctttctt cgtcgtcttc gccttcgccg tcaccgaccg 240
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 cggatggctc cgcgaccgcg tcgccgaccc gcagtactgg gccaccatca gcgcctgcct 360
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<210> 43349
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-E8

<400> 43349

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 aaaatcctaa atttaaagaa aagggaacac atgttgatta tagaaaaatt aggaggaacc 180
 tagaattaga gtcttatggg caaggacact attgctgatt tactaacctc tataagaaac 240
 gcatacatga ataaaaaagg aactgttcga gtagtatcca caaatattac cgaaaacatt 300
 gttaaatac ttctacgaga gggttttatt gaaagtgttc ggaaacatca agaaagtaac 360
 aaatatttct tgggtttaac tttgcgacat caaaagagaa agactagaaa gggaatatat 420
 agaactagaa ccttttttaa gcgta 445

<210> 43350
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-F11

<400> 43350

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 aagacgaccg ccgggaagaa gcccaaggcg gagaagcggg tccccgctgg caagtccgcc 180
 ggcaaggagg gcggcgaggg caagcgtggc aagaagaagg gcaagaagag cgtggagacg 240
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aaggccatgt ccatcatgaa ctcttcatc aacgacatct tcgagaagct ggccggcgag 360
 gccgccaagc tcgcgcgcta caacaagaag cccaccatca ccttccgcga gatccagacc 420
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<210> 43351

<211> 189

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-F12

<400> 43351

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 atgacgaccg ccgggaagaa gcccatggct gataagcggg ttctcgttgg catgttcgtc 180
 ggctaggat 189

<210> 43352

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-F2

<400> 43352

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 cggcttacta catgcttggt actgcctgac atgtattcta cacgtgtacc tctatgccca 180
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<210> 43353

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-F3

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 agtggttggg tcagtcatca agtcacagac ttatgggcaa aaacatcacc agatgctggg 420
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<210> 43354

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-021-Q1-K1-D6

<400> 43354

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 cacggcatcc agcctgatgg ccaagtcctt ggagataaga ccgcgggaca tcacgatgat 300
 gccttcagca ctttcttcag ccaaactggg gcttgggaagc acgttccccg tgcaatcttc 360
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<210> 43355

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-A7

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gcatgtcgac cggactagtc cgtgacaaga tgaagtgcct cgcgtgtcgc gaaagcggac 240
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<210> 43356
<211> 56
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-A8

<400> 43356

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<210> 43357
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-B1

<400> 43357

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aatcaccaca catgcgcaac tttggatgtc caggtgcttc atcttcgatt ccccttacca 180
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atttgctcct aggtcctcaa attgacgaag ctgaagctca tgctgtttca ctaggtgctg 300
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<210> 43358
<211> 152
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-B10

<400> 43358

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aacgtgcacg atattagcct agagcagagg ta 152

<210> 43359
 <211> 187
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-B3

<400> 43359

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 cggcggccag ggccgacacc gctgcgtgaa ggcttttttag cacggtcgcg aagcgctcgt 180
 gcgctgt 187

<210> 43360
 <211> 64
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-B6

<400> 43360

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<210> 43361
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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 gatcatgcct gttatatggc atcaatcact gcttgcattt gtggaaagat acaagaacga 180
 gttagagaaa aaggataagg agaaacttgc acgtttgttg gatcaccaga aacactatatt 240
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aaatttgcac actttgtcac ctatctnctg cattaccaag cctatcgagg aagacaaatg 360
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<210> 43362
 <211> 189
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-B8

<400> 43362

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 actcgatcac cgataccttc acgcaaacgg tgttaagcac ggactggaag cactagagcg 180
 cggtcggaa 189

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 <211> 261
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-B9

<400> 43363

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 ggtatccaag cgcgatgctg tacttgtgct cagagatcgg acaccctacc tatggatcct 180
 ccgtcattgt ttgtgtacta agtcagaatg tgtatgattt agcaatggct aatgcaagct 240
 ccctgataa tatgtcttac a 261

<210> 43364
 <211> 132
 <212> DNA
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<223> Clone ID: LIB3076-021-Q1-K1-C1

<400> 43364

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<210> 43365

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-C11

<400> 43365

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 cactggggcc caacgcgatt agactcctcc ttttgcccaa cttgtgaca tatatgcaac 180
 ttatggagcc agaactgcaa cttgagaagc agaataacga gatgaaaagg aaggaagctt 240
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 ac 302

<210> 43366

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-C2

<400> 43366

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 gatcatgcct gttatatggc atcaatcact gcttgcattt gtggaaagat acaagaacga 180
 gttagagaaa aaggataagg agaaacttgc acgtttgttg gatcaccata aacactatct 240
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 aaatttgcac actttgtcac ctatctccgt cattaccaag cctatcgagg aagacaaatg 360
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<210> 43367
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 43367

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<210> 43368
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-021-Q1-K1-C4

 <400> 43368

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agatgtcgca agtcctgagg ctggtgttat tgaaaagctc attgctagtg aaggcgacac  180
agttactcca ggcactaaag ttgcaatcat atccaagtct gctcaacctg ctgaaacaca  240
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accaaaggta gaggaaaaag ccccaaaggt agatccttcc aagatgcaag caccaaagcc  360
aactgcacca tcaaaaacat gcccttcaga accacagctc cctccaaaag aacgagag   418
  
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 <211> 238

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-021-Q1-K1-C6
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 ggagcactgc gacatgaaat gggacatgtg atggagatag ctggatcagg agctggaaga 180
 gtggcggttg caacacttat ggcgactgtg cagccaggtc cggaggcagt agtggcac 238

<210> 43370
 <211> 385
 <212> DNA
 <213> Zea mays
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 ttctttctcat actcctgccc gtgctcgccc cgggtggcctc cgggtgtacct ttcgtcgctc 180
 tacacgggat tggcgacgag tgccgggaacg atgggctgtc atccttcacc aagatgcttg 240
 gggagtggtc aggctccaag ggttactgca ttgaaattgg aagaggagca tgggactctt 300
 ggtaaatgcc acttcaagag caggcaaata cggtttgtaa gaaggtcaag aaaatgaaag 360
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<210> 43371
 <211> 246
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-021-Q1-K1-C7
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 tggatacaga cttgatgctc ttgaacccat atctcctatc gaatctgata aagccactat 120
 acatgtaact ggaccttaag ctggagatct ctagttgcac atcgctaatac acggctacac 180

aaacgcttca ggctcttgtg ctgccatcat attcatcagc ggtcaatccg caggcacaca 240
tgtcgg 246

<210> 43372
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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acatttgtga agaggcatct cactggagag tttgagaaga aatatgaacc aaccattggt 240
gtggaagtgc atgcgttggg tgtcaccact aactgtggta agatcagggt ctactgctgg 300
gataccgcag ggcaagagaa gtttgggtggc ctccanggatg gatactatat ccatggccag 360
tgtgcatca tcatgctcga tggaaacctta aggcttactt acaagaatgt tcctacgtgg 420
cataaggatc 430

<210> 43373
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-D1

<400> 43373

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ggaggctacg acggcggcta cgacgcaggc ggtggagacg accgtgaacg aggcgctgac 300
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375

<210> 43374

<211> 269

<212> DNA

<213> Zea mays

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<400> 43374

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cgaatagaga gaccgtcttg gagagccacc aatggcttgt tccactgcat ctttagcggc 120

aacgctgctg gcagtagcgc tgatgttgca ggctgcgctc acagagagga ggaggctcac 180

cgcgctcgtg caagagccgg ccataaccat gaagtaccac aagggcgcgc tcctgtcggg 240

cccatcgcc atcaacttca tcttgact 269

<210> 43375

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-D3

<400> 43375

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aagggcaaca tggacggcgc ccgcatctac gccgagaacg ccatccgcaa gcgcaccgag 180

cacatgaact acctccgct cgctctcgc ctcgacgccg tcgtggcccg cctcgacacg 240

caggccaaga tgcaggtcat cggcaagtcc atgcagtcca tcgtcaagtc gctcgactcc 300

tcgctcgcca ccgggaacct ccagaagatg tccgagacca tggacaattt cgagcgccag 360

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-D5

<400> 43376

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gtcacgcaat gctgactttt gccagcttca gcggtcattc aagagtgttg gcccctcaac 180
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<210> 43377

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-G7

<400> 43377

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cgctcccggg ccagcccagt caggatctgg tcaagttttt gcctttcata tcgaagaaat 420
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<210> 43378

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-G8

<400> 43378

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cagtggcttc gacaacgcc a gactagcag cttcgagttc cacggagtgg agaaggcggc 180
ggcgacgcag aatccagcag ccgggtactt gtccaggcag acttgcattt cctacaagtg 240

gaatgacgca tagaaatgga tcgtgagccg ccagaatgtc agtcagaaga acaacgtcgc 300
 caagggcgcg ttgcagaacc agacagtaaa ccagatgagc tccgccgcag ccagggcgcg 360
 cgttgtgccc aaaatctctg ctctgtcccg gcagaaaatg aagagagtga atccagcttt 420
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<210> 43379

<211> 386

<212> DNA

<213> Zea mays

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<400> 43379

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 ggcgacgacc cttggcagga attcgtgagc acggtgtcct gcataaagat cctctccccg 300
 caggaagtgc agcagatggg gaagcagggc ctggagctcc tgagctcggc ccccgcgcg 360
 aagctcggta gcagctgtga cgacta 386

<210> 43380

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-H12

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 aacttgccaa taagtcattg cactgatggc agtctactcg atctcaaagg tgacaaccat 240
 ctgatcaagc tttatcgggg aaggaaactg gaatacgagc gcaaatgttg cagcgctcac 300
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<210> 43381
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-H3

<400> 43381

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cgagtctttg gagcaccggt tggccgtggc agaggcagcg caaaggctga ggctcccact 360
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<210> 43382
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-H4

<400> 43382

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cgagactttg gagcaccgga tgaccgtggc cataagcagc gcacaagctg aggctccac 360
tgctctctca ggactgggag gttcatgagc acgaaatcga aaagcttgac ccctatatca 420
tgagttcatt c 431
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<210> 43383
<211> 267
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-H5

<400> 43383

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cgcgccccctc ctctacatct ccgcacactc agaccttctc catgcgcgcg aggaggtcgc 180
ggcagagcgc gctctgcacc tagaggcact ggcgggtgtac gcaaaggctg tggacatggt 240
ggaggaacac catgcggttg ccggccc 267

<210> 43384

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-H7

<400> 43384

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aaggggagag gatgtggttc atcctctgaa ggtttctctg gaggatttgt acaatggcac 180
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ccggcagttg gggcctggaa tgatccagca aatgcagcat ccttgcaacg agtgcaaggg 360
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<210> 43385

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-H8

<400> 43385

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acagtctttg caaatcattg aagtaatcta cctgagaaga gactgaagat ctttgaacta 180
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<210> 43386
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-H9

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 ggttgccgag tgcgagaagt tcaaggagaa cgcgaggccg ctcaagcgcg ggcgcgacgt 180
 gtccaaactc aaccacgcgc tcaaggcaca cgccgatccc gccagcgcg ccaactcttct 240
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 agggttggtg gtgttgtagc agcagtgcgt gcggacctta ttggacgacg agcgcttc 418

<210> 43387
 <211> 246
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-A1

<400> 43387

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gcttttt

246

<210> 43388
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-A10

<400> 43388

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gcagatttgg aacacttaac aa 442

<210> 43389
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-A11

<400> 43389

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gagcgggaga tgctggcatt atcgacaag ctaaggcatt tcaagggtta actgcgagca 180
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<210> 43390
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 43390

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gctgaggatt tcttctgccg cttcgagtat aaatcagcta ctggcagctt tgtaccagat 120

cgtatagcag tgttttgcaa gtgcgagatg ccatacaatc cagatgacct tatgatccaa 180

tgcaagaat gttctgactg gtttcaccct gcttgcatg ggatgacaat caaagaagca 240

aagaaactcg agcatttttt ctgccagacc tgtacagctg anaatggtaa gatggttgag 300

aattcacatg aagctacagc gcaatcagaa gaaaagctgg tggagtcaaa aaagcggcga 360

aagtgatggc cgtgctgatt aaatttatga aatctatg 398

<210> 43391

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-021-Q1-K1-A3

<400> 43391

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acgaatggct aatgtgatgt gttgatcaac tacagcaaaa tggctgagac ccacactgaa 180

tggatgagat tatttggatt gtttggctgg gtaatctcag atgtggttag ttgatggatg 240

cctttttgga gtactccttt tgtttccttt ctagttaagc aggcaggtag cactactcgt 300

atccagagtt tcacggagcg gatgcggagg gggcatattt tgggcagcag acctcagttc 360

tgacatggaa tgatgc 376

<210> 43392

<211> 252

<212> DNA

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<223> Clone ID: LIB3076-021-Q1-K1-A4

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gaggattcac tccaccatca gtgcaccacg ccaccatccc tgctcaatc aacgtctcat 120

cattacggac gcctataaat gcctaggtgc gtgcggggcac taccactacc atacagggca 180
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<210> 43393
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-G6

<400> 43393

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 ggttcccggg ggagatgaca acgatctgga gctgaacgcg gagtcccact tcctgagctt 180
 cgtgcagcgg ttccggcaagt cctacaagga cgccgacgag cacgcgtacc ggctgtccgt 240
 tttcaaggcc aacctgcgcc gcgcgcgccg gcaccagctg ctggaccctg cggcggagca 300
 cggcgtcact aagttctccg acctcacgcc ggcagagttc cgccggacct acctcggcct 360
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 gctccccacc gatggtc 437

<210> 43394
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-F2

<400> 43394

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 cctcctgtcc agaatggtga tgctcaggcc caggccttga acgtggcccc tgctgacaag 180
 tctgggccat gccctcagaa aaccatacat attcgtacat ctgtaacatt ccaccagccc 240
 aagaccctga ataaggccat ctacccgaag tacccaagaa tcagcactac tgcaagaatc 300
 aagcttgatc 310

<210> 43395
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-F3

<400> 43395

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ccggcgggcca tcctgtcgac ctatgccaag tccaaatcca gggcaaggaa ggacgcagag  180
agcaaggcca aggcgaaagc agaggactct tccagtgtt ctacttcgat gcaggtggac  240
ggcgctttctg ctgctggtgc tgctgcagag aaggccccgg agccagagcc tacgttccag  300
atcctgacga acccgccccg ggtcgttcca gccaggaga agttcataaa gttcctggaa  360
gacagcaggt acaagccggt gaaggctgcc ccctcggg                               398
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<210> 43396
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-F4

<400> 43396

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tggatattgg cttggttctt catgtcgttc cactggccac cgagacaaac cgccaatctc  180
aaaggctgcc ataattggtg ttgctgtggg tggacttggt atcctcctga tgatcttagt  240
agctgtatgc aggccacacc attcacctgc ttttaaagat gccactgtaa gcaagccagt  300
gagcaatggt ccaccaagc tggatgcct tcatatgaac atggctcttc atgtctttga  360
tgatataatg aggatgactg agaacttgag tgagaaatac atcattggat acggggcatc  420
aagtacaagt tataaatgtg ttct                               444
```

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<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-020-Q1-K1-F5

 <400> 43397

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 tactgacaac aacttcacac ggatttcaca tgacaacttt ttaggcaatc ctggactctg 120
 tggatatcgg cttgggttcta catgcgattc cactgaccat cgatacatac cgtccatcta 180
 aaaggctgac ataattggta tcaactgtgcg tgaacttggt atgctcctga tgatcttagt 240
 agctgtctgc ttgtcacaca attcacctgt tgataaagat gacactgtga gcaagccagt 300
 gatcaacggt ccatgcaagc tcgtgatcct tcatatgaac atggctcttc atgtcttcga 360
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<210> 43398
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-020-Q1-K1-F6

 <400> 43398

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 cggatatcgg ctcggtccta catgcgagtc cactgagaat cgctacatac cgtccatcta 180
 aaacgctgac ataattgtca tcaactgtgcg tgaaatgggt atgctcctga tgatcttagt 240
 ctctgtctgc ttgtcagaca actcactggt tgacaatgac gacagtgtga acaaccaga 300
 gatcaacggt ccatgcatga tcgtgatcct tcatatgaac atggctcttc acgacttcga 360
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<210> 43399
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-020-Q1-K1-F7

 <400> 43399

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gaaagacaac gtccacatgt tgtaagctat atgtaattgt aacttaggta caaagagtcg 180
tccctgtgcc gtgctgtcag ggaaaatagt ctgggtggtg cgctgtttta ctctacaaga 240
tgtcttatat gatgtacaag atacagacac ttctgggtgt agtgaccttg ttcccacctc 300
accttttaaa gtttgtggcg ctgagtcaat atggatgtaa gtcaattgat tgaagaaaca 360
ttttcgacta tgc 373

<210> 43400
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-F8

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cgaaagacaa cgttcacatg tacatagcta tacgctgttc gcacttacgt acccacagtc 180
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atgtctgata tcatgtacaa gatacagaca cttctgagtg tagcgacctt gttcccacct 300
gagctcttaa agctagacac gctgagtaac tatggatgga actcaattga ttgaatactc 360
atztatgact atgcgaagac tgaaaa 386

<210> 43401
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-G1

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ttccagggtcc agtacgctcg tccaggacgc ccacaaggct caacgctcgt cgcgcgcata 180

cgcggcacgg acaccgacca actcggagta ctgaacaagt gcacacacaa gctccaggaa 240
 tacatgttcg tgcgcaagat cgactgccta gacactcaca tagctctggg acgcgcacag 300
 ccgaaagcgg acgcgcgcgt gtcattaac cgcgcg 336

<210> 43402
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-020-Q1-K1-G10
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 gagcagaagg cgcttctcga gaccgtcatt gccaaccttc cagaggaaac catcaagagc 180
 accgtccaca ccggcacggg cgtgggcgcc accacggcgc gcgtcctctt cggctctcctg 240
 cgtactgcga gcatactgca tgcgtcggac gcgtcacggg acatgcttga gcggagcatc 300
 gccgtgcgga tgcccgcgc ggctgctgat gacctgctca tcccgagcta ctcgtacctt 360
 gtggagacgc tctacgacgt gga 383

<210> 43403
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3076-020-Q1-K1-G11
 <400> 43403

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 catcaacgcc gccaaaggcc tccaggacgt gctcaagacc aacctcggcc ccaagggcac 180
 catcaagatg cttgtgggtg gagctgggtga cctgaagctg acgaaggatg ggaacaccct 240
 cttgaaggaa atgcaaattc agaaccacaac tgcaatcatg attgcgagga ccgctgtggc 300
 acaggatgac acaagtgggtg atggcacaac ctncacttgt gctattatcg gggagctaata 360

gaagcagtct gagcgggtgca tcgat

385

<210> 43404

<211> 371

<212> DNA

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<223> Clone ID: LIB3076-020-Q1-K1-G12

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catgtcttca cgaggctgaa gcacactttt cccgattcat acagattagg attcaagcgg 180

agaccaccag aatgatagcg aacagaagggt ggttcatggg ggtaatcatg acgaaagaaa 240

atatcgaaga aaaaacgatt gtcattgtaa ggtgttccat gtgcccacac gatgcaagcc 300

cttagaagat ccatgctttc ctcataaact ctcacatgaa taccatctgg tacgtcattt 360

tgcaagatgt t 371

<210> 43405

<211> 417

<212> DNA

<213> Zea mays

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<400> 43405

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cctggcaagg gtatccttgc tgctgatgag tccactggca ccattggcaa gcgcctttcc 180

agcatcaatg tcgagaacgt tgaggagAAC cgcctgccc tccgtgagct cctattctgc 240

tgccctggtg ctctccagta catcagcggg gtgactctct tcgaggagac cctgtaccag 300

aagaccaagg atggcaagcc ttttgttgat gtctctaaag agggaggcgt cctccctggc 360

atcaaagttg acaagggcac cattgaggtt gttggcactg ataaggagac caccacc 417

<210> 43406

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-G3

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cgtccggccg caccctaaat cctggcaggg ggtgctttcg gcgaggcacc cgtcgaacgc 240
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<210> 43407

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-G4

<400> 43407

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gcaaggaaca ggatcgtaag gaggaggtgg aggcgtagcc ggaggagagg aagaccagc 180
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gatcagtatg tgtgtatgac tcagtccac cggaagaggc tcaagcaatc atgcttatag 360
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<210> 43408

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-G5

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gcatggaaca ggatcgtaag gaggaggtgg aggcgtaggc ggattagagg aagacccagg 180
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ggatcagtat gtgtgtatga ctcagtgcc aacggaaaagg ctcaagcaat gatgcttata 360
gctgcaactg caacggcagc ggagttacc aaaatcagtg ctgtccctac tgta 415

<210> 43409

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-F12

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ttcttggttt gctttctccg tcgatgcggc ctcttttaca gagcaacaaa agggctctaa 360
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<210> 43410

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<210> 43411
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 <213> Zea mays
 <223> Clone ID: LIB3076-020-Q1-K1-C9
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<210> 43412
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-020-Q1-K1-D1
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383

<210> 43413

<211> 365

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<223> Clone ID: LIB3076-020-Q1-K1-D11

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gctgtatcag cggctggtgt tcaggcaciaa gttgtaccag ctgatggagg agagggacat 300
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<210> 43414

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-D3

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gaccagacta ttactatcaa actaaacgcg cctgcgagca cgccagatgg acgactagaa 180
catgctc 187

<210> 43415

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-D4

<400> 43415

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cacacg 426

<210> 43416
<211> 413
<212> DNA
<213> Zea mays
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<400> 43416

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atcctcattc ttttctttca tcaaggctag caggaatccc tggaattagt gcatctcttt 360
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<211> 306
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-020-Q1-K1-D6
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agctatactg acccttgcta atatcagggt ctggaagtgg cattaaatca ccattgaaaa 180
 tggcctaaac agacgattca gcactgcatg gactgactct atacttatgc atcttcaact 240
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 tcttca 306

<210> 43418
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-020-Q1-K1-D7
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<210> 43419
 <211> 310
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-020-Q1-K1-D8
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 tacagataca ctttttgata gcacccttcg tgaatcacct gaggatgatc tacatggacg 240
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310

<210> 43420

<211> 381

<212> DNA

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ttcgggtctcc tacgattcag gggaggttgt ctgacatgct cgtcgaactc atacatatag 240
aaaggaccgg tgatgtgata aacagaggct tgatgaggac tacaactaaa atgttgatgg 300
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<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-E4

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atatgtatca gatttgtaga gctttggctt accttcacaa ctgcgtagga gtgtgccaca 180
gagatataaa gccacaaaat attctgggtga accacatac ccatcagctg aagttgtgtg 240
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gatactacag agccccagag ctcatatttg gggctactga gtatacaaca gctattgacg 360
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acagtgggtg cgatc 435

<210> 43422
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-020-Q1-K1-E5

 <400> 43422

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 ggggggaactg gtcgtgtcta catgcgagct tgttgagagg cgccacatac ggtccatcta 180
 aagcgctagc ataacgggtga gcattgtgtg tcaagtgccg atgttcgtgc tgatcgagcgt 240
 ctctgacttc ttgtgagaca tcgcacagct ggagaacgac tacagtgtgg ccaacgccga 300
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 ctatataatg aggacgattg agaacttc 388

<210> 43423
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-020-Q1-K1-E6

 <400> 43423

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 ggtggtactg gccgtgacga cagtcgagct tgtcgagagg cgctgatac gctccatcca 180
 cagcggtagc tgcccgatga gcatcgtgtg gcaagtgccg aagttcgtgc tgatggcagg 240
 ctccgacttc ttctgcgaca tcgcgcagct ggagtccttc tacagcgagg cccgcgccga 300
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<210> 43424
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-020-Q1-K1-E7

<400> 43424

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ggtaacattg tgctcagtgg tggttccact atgttcccgg gtatcgctga tcgtatgagc 120
aaggagatca cttcccttgc accaagcagc atgaagatca aggtcgttgc accgcctgag 180
aggaagtaca gtgtctggat acgagggctg atcctagcct cgctcagcac tttccaacag 240
atgtggatat cgaaggagga gtacgacgag tctggcccgg caattgttca ccggaagtgc 300
ttataggggt tcacacgttc ctcgctgcta cctagtctca aattatgtcc cctacatttc 360
tcgagatatg tgtggcacat ttgcatgata cgtctgattg 400

<210> 43425

<211> 444

<212> DNA

<213> Zea mays

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<400> 43425

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gccattccgc ccaccgatcg accttcacgc cagtctcggt ctcttccgaa ggcgtcgcgc 120
gcggttggtt gagaggagag gaggaagatg agggagtgc tctccgtcca catcgggcag 180
gccggcatcc aagtccgcaa cgcgtgctgg gaactttact gcctcgagca cggcatccag 240
cctgatggcc aagtgcctgg agataagacc gcgggacatc acgatgatgc cttcagcacc 300
ttcttcagcc agactggtgc tgggaagcac gttccccgtg caatcttcgt tgatctagaa 360
cccactgtga tcgatgaggt gcgcactggc acgtaccgtc agctcttcca ccctgagcag 420
ctcatcagtg gcaaggaaga tgcc 444

<210> 43426

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-F11

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ggagaagcag cggcggagcc ggaggagggga gagcgaagat gcgccgcgtc gcgctgttgc 120
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<210> 43427
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-020-Q1-K1-C7
 <400> 43427

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 gcactgcagg atgtacagg ctaagagagc tgcttcgctc agggcgaagc gccggcgcct 180
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 caagaacatg gacactgggg atcatgttgc catcaagatc ctgcacaagg ccaaggttca 300
 caagaacaaa ctagttgagc agattaggag ggaaatctgt acgatgaagc taatacagca 360
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<210> 43428
 <211> 291
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-020-Q1-K1-B1
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 gatgatttct tcaagctgcg ggggcatcat caagtacgtc gatggcaacc atgacacgta 120
 gctaccacc aaattactta agcacctcac tgcgcacctt aagaagctag atgacgccct 180
 caaactgact aaggtgaaga actccttaaa gctgccggtc accgacgcca atcccaaagc 240

cgacaagtcc aaggcaccca aggtcgcgcc caatcccaat ccctcttcga a 291

<210> 43429

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-B10

<400> 43429

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gctcacgtgc tccctgcttg cgcggtgggc gagaaggagg gcgacgcggt caaagcgtat 120

gccgcgaacg cctccagccc gatggcgaca atcagcttcg ggggcacggt cgtcggcgctc 180

aagccggcac ccgtgggtggc ctcttctctc gcgcgtggac ccaacgggct cgtcccggag 240

attctcaagc cggacttcat cgcaccgggc gtcaacatcc tcgccgcgtg gacgggcgcc 300

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acg 363

<210> 43430

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-B11

<400> 43430

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ggagagactc agggcctatt tgcttgcgcg ctgggctaga atgatggcga cgctctcaaa 120

gcatatgccc cgaacgcctc catcccgatg gccacaatca tcttctgcag cacggtcgtc 180

ggcgtcaatc cggcaccgt gatggcctcc ttctcggcgc gtggacccaa cgctctcgtc 240

ccggacattc tcaagcctga cttcatcgca ccggtcgtca acatccttgc cgcgtggact 300

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-B12

<400> 43431

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ggagctatga ttgggtacac tccaagagga atgcaacttg ctcaagaaac tatagagaag 180
atgacttcaa gaaatTTTTT cttgaatgcc aagatgggaa ctgatctcct acttgacgct 240
gcccgtagaa cggctggtgg atatacgact gcccaattatg tctgggatct cctgcaaagc 300
cgtaaaatca ctccaacact tactgctgtt gaagcatacc acaagggtct gacagcgcta 360
gagattcctt ctgacgatcc acgacttctc aatgttacct atgttttgga c 411

<210> 43432

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-B3

<400> 43432

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gcgtcgggaa gactcaccac ttccgcttgg gcaaccttat ctgctactgc tccgacatct 180
acgaactgct gtcataccc cagctcatgc tcaacgatac gcctgcgcat 230

<210> 43433

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-B4

<400> 43433

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gggtcagtct ttatatgctt catggcgcca ctctccgatg gctacgataa gtttatgttt 120
acttgctcag gcatacaatc acgcaagctg tgttattcag tcaactgggag aagaagacat 180
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 tgtttctcag gcacatttga attccgaaac ttggagagtt ctacctggct tttttaattt 360
 gatttctagt gctacattaa tggcatgata agcctggacc aatctttgtc tcatg 415

<210> 43434
 <211> 392
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-020-Q1-K1-B5
 <400> 43434

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 gaggaaaaaa aaaaaatata aaaaaaaaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaat 120
 aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaaaggg tgggagatta 180
 aaaaaaacaa agttaatttt ctggttcaat taaataaata gatcctttat attagacact 240
 aaattaaatg cttacttgcg tttacaaaaa acttggtatg ataaaaacct tctgcaaadc 300
 aatcttatat gtttttaaaa aacatttgaa ttccgaaact tggagagttc taaatggctt 360
 ttttaatttg atttctaaaa ctacattaat gg 392

<210> 43435
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-020-Q1-K1-B6
 <400> 43435

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 tcttgcaaag ttggtgatgg tttggttatc cacctttcac aggctgccct aggggaacca 180
 aagaaagcga gtgagaatgc cattgtgtct gtcaaaattg atgataagaa actagtgcct 240
 ggaaccttat cagttgagaa gcacctcaa atctcttggtg atctggtatt tgataaagat 300
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 tgttcctctg tttgaatctg attctggtga agatagttc 399

<210> 43436
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-B7

<400> 43436

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 tccaaactta tctgctactt cttccactgt aaccaacctt ttatcttcac caatttattc 240
 ccaacgacac tcttaccxaa cacctttttc acttttaaaa ccatacaatt taattggcta 300
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<210> 43437
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-B8

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 tcgcattcgt ctgcgtccta gtttttaggtt ttgggagtgg caatgaaact ccagtagagc 180
 ttccaaagaa acttatcacc ggccccccaa gtgctgatag aatccaactt cctgatggac 240
 ggcattctggc ttatcaagaa caaggagttt cagctaacag agcaagattt tcaactgattt 300
 atcctcattc ttttttttca tcaaggctag caggaatccc tggaattagt gcattctttt 360
 tggaagaatt tggagtacga cttgtgactt atgatcttcc tggttttggt gagagccatc 420
 cacacgt 427

<210> 43438
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-B9

<400> 43438

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tcttgatct agcaaaccct gccaaagggtg ccgctgaagc aattcttgcc aagtcagaat 180
ctactgctcg tggaatgaga ttcttttcac atgccatgac aactgaaagc atttccaatg 240
cttctagcct gaaacttgca tagcaatata tctaagcatt ttcaaacttt gcaccaaaga 300
caaaatacaa tgcttatttc aagatataag tccccaaaat tcccaacatt tttttt 356

<210> 43439

<211> 386

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-020-Q1-K1-C1

<400> 43439

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ccaagggcgt cggaagctg cgccactgcc gcctggccaa cctcatcggc tactgctgctg 180
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tcttccactg ggaaaaccag acaattgaat gggctatgctg tctgagagtt gcatactaca 300
tcgctgaagc actggagtat tgcagcactg aggggaaggcc tttgtaccac gacctatatg 360
catatagggt cctctntgat gagaat 386

<210> 43440

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-C10

<400> 43440

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cgcacaggtc ctatgcttgc ttgcatgtgg cgcaaggcga tgctcggcgc ggtgatcggc 120
ggcaagccgt cgctggaacg cgctcggcgc aacgt 155

<210> 43441
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-C11

<400> 43441

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cctatagcat aaagcccttt ctaaaccctc taagaaaact ataacgctgt atttacttcc 180
cattcttctt tttattaata cctaaattca gtcttcaaac aaatacgaaa aactgaactt 240
aatctcaacc ttcc 254

<210> 43442
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-C12

<400> 43442

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agcttcacct gcaattcttg tcgattgcga tgatggtgag ctttactca acttgaaatc 180
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aattggttgt caggtacctg gttcctctcc attacatgac aaaggtagcg aatcctcggg 360
gtcgccagtg aaagacactc ctgaggctgg aatcagattg ccaggatcag ataactcaac 420
tattgcattt tt 432

<210> 43443
<211> 409
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-C2

<400> 43443

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acgtctaaca tgtcagccta tgcctaccac cggaagtcag acaactcaga cagagagctc 180

caacaggagc tggaaaagga ccgcatgcag taccagccag cacagcgggt catggacgcc 240

aaggtagtat cacagatgtc ccctgacttg aggtcttact actacatacc aaaaggtgtc 300

ccaaaggctg atccccgaga tagaaccgct ctgcattcta gcatgattca tgggatcgcc 360

cctttcagtg gcattgcagc tgttggaggt ggctacaaca aggtcaatg 409

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<212> DNA

<213> Zea mays

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acttcctaca accacgttta acatgtgagc ctatgcctac caccaggagt cacacatctc 180

agacagagag cttcaacagg agctggtgaa agaccgaatg cagtaccagc cagcacagct 240

gtttatggac gccacgctg tatcacagat gttccctgac ttgaagactt actactacat 300

accatatggt gtcccaaagg ctgatcccg atatagaacc gctctgcatt ctatcatgat 360

tcatgggatc gcccctttca ctggctttgc a 391

<210> 43445

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-H10

<400> 43445

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tgaacaaaca ttcctattgc tacctgagct aacgcaacac ttttgactta tacacatagt 180
ttctgaccct gcctttgtaa tccttagaat a 211

<210> 43446

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-H11

<400> 43446

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aacaccccga cctgcttcgc catctacgtt tgcggaccgg acttcgagga cctgctcgcg 360
cagggcggac tcgcccgggt cgagaagaag aacgcgcg 398

<210> 43447

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-H12

<400> 43447

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cctgctggga gtttgcacga gcacctacat gagtgcctat acgagagctc gctttcatgg 300
gtggagaggt ttgacataat cgctggcgtg gtccgcgcac ttgtgcactt gcatcgctac 360

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<210> 43448

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-H3

<400> 43448

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gtgggtgcgc atgcgcctcc tcccggacgc gcctgcgcgc cccttcgcc gcctctacct 120

ccgccggggc ctctccgcc gcgcctccgc cgtcaccggc ggccgcgagg gcaactccgg 180

ccccgtccgc gtccgcttcg cgccgtcgcc caccggcaac ctccacgtcg gggcgccccg 240

caccgcgctc ttcaactacc tcttcgcgcg ctccaaggga ggacgcttcg tgctccgcgt 300

cgaggatacc gacctcgagc gctctaccag gaagtccgag gaggccgtcc tcgccgacct 360

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<210> 43449

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-H4

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ggccggggtc cagttccccg tcggccgcac cgggcgctac ctcaagaagg gccgctacgc 240

gcagcgcgtc tgcagcgggtg ccccgctcta cctcgcggcc gtactggagt acctcgccgc 300

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<210> 43450

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<212> DNA

<213> Zea mays
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<210> 43451
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-019-Q1-K1-H8
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 ggccgtgagg gcaaagtggg gcaagtgtac cgccgtcgct gagtcaccca cgttgagcgg 180
 atcacccgcg agaaggtgaa cggctccacc gtgaacgtgg gcattcaccc ttccaaggtc 240
 atggctacaa agctgaagct tgacaaggac cgcaaggcgc tccttgaccg caaggcccgg 300
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 ggtggcgccg ccgtcactgg cgcgtatddd catgagatcg act 403

<210> 43452
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-019-Q1-K1-H9
 <400> 43452
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 agcaaggggt ccagaaaaat catttctagt gctgcctctg ccaatggaac acttttggcc 180
 tattcagatg gtgtgagacc ctgcctcttt gcgctaaggc ataaggggtg aaagaagtat 240
 acccttgaca aattagagct accaaaagga ttgccctgtt ctcagagtat ggcgtttact 300
 gttgattcgt ccaatttgat acttgccgga cgtaatggaa aaatatacat cattgacatt 360

gcaacaagag aaatttcaaa tgtatttcac cctacaagaa aggcagatgg agcaaaaatc 420
tcaagagaat cacctataac g 441

<210> 43453
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-A1

<400> 43453

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agacgttcgg gctgatgctt cgcaggaacg agccgctcta ccttgctcct agggccgtct 120
agctagctag ttactgtgcc gccgccgtct gctatccaag aatgcatgag tcttagacgt 180
gtggcagtaa taattgcgtg ggggttagta aaataataag cacgtttggt gagttgtaat 240
ggattcacat tatgtgcatt cgagacaggt cgaaggaatt gtatctctat agt 293

<210> 43454
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-A10

<400> 43454

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tccgggacca ggaggacctc ctccggctcg tgacggccga ctactacgcc gccgtcatga 180
cgccgcggga gcgcgcggcc atgcgcgcct tcagggcgcg ccggatgacg tacacggtgt 240
gctacgacgc cgtgcggtac gcggacgggc cgttccccga gtgcgacaac tcggacgagg 300
agagggagtc cttctcggcc tggggcgagt ccaagaccgt cgtcgtgagg ccccgcgccc 360
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<210> 43455
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-A11

<400> 43455

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aaggttgtaa atcttttgaa gaagcccgag cagcaggatt caccgaagag agtgggacgc 120
tggtgatat atgggagact gtatcaaaca gtgatcttgt tttgctactg atatctgatt 180
ctgctcaggc tgataactac gagaaaattt tctcgacat gaaaccaaac agtattcttg 240
gtttgtcaca tggatttctc cttggacatt tgcaatctct gggttttgat ttcctaaaa 300
gcatcagtgt gattgctgta tgcccaagg gaatgggcc atcagtcaga agactttatg 360
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<210> 43456

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-A2

<400> 43456

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gggtaaacc gcctccctcg ctctcacc gctccctgtc catccacca tcgctcgcg 120
gccgctctgc tgccgtttgc tccagctgcg gccgaccggg gccatggctg gcatcgacct 180
caacaccgtg gaggaggagg acgaggagga ggcggaggcg ctgcctttgc ccggaccggg 240
tgcccggtggc gccgtgtgcc tggagctgtg gcacgcgtgc gcgggccccg tcccgcgct 300
gccgcggaag ggcagcgccg tcgtgtacct gccgcaagge cacctcgagc acatcggcg 360
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<210> 43457

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-A3

<400> 43457

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gggctgcccc ttctgcatcc acgggagtag tgttgagtgc cgaattgaca tgaagaatct 120
 gattggcgaa gcatcttgga gaatctgtca ggaaaacttc agcacaactg ttaatgcact 180
 cactgagcct attgatatat atagtgaatg gattgatgag tgtgagcgtg tcaacactgt 240
 tgaaggcgac gatgatgcgt gagcttgccc catgcgatga aactgttacc tacaatcgta 300
 atgtaatgtg ctgggtattct cgaatgccat agcccatagt cagccatggc ttggaataac 360
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<210> 43458

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-A4

<400> 43458

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 gaggagacgc gccaccacca gtgcaccacg ccaccacccc cgccccaatc aacgccgcag 120
 cagtagggac gcctataaat gcctaggtgc gtgcggggcac taccactacc agtcagggca 180
 agactcgcag cccggacaag gtaaggcgac gtacggcagc gatggcgccg gtggtcatga 240
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 gcgccacggt cacaccgtcc gtggtgctgc cgccgatgac ggtgccccgt gtgcgcggcc 360
 ggttgagggc cggtcgtaag ctgcatgccg tcgacgccgt cgggatgggc attgactccg 420
 tgggtgc 426

<210> 43459

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-A5

<400> 43459

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 gatgtgaccc tcctgcagcg gtgctccacg cgaccaccgc cgtcccaata tacgccagta 120
 tagtaggtac tcctataagt tcctacttgc gtgaaaacac taccactacc agtcatggca 180

tgactcagag tccggacatg tgtaggcaac atactgaaga gatggctcct gtcgtcatta 240
 ttagcatcta cgacgatgcg tcaactgttg cgatgcaatt aaagggcacg ataagatact 300
 gctccactgt cacactattc gtggag 326

<210> 43460

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-A6

<400> 43460

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 gaggagacgc gccaccacca gtgcaccacg ccaccacccc cgccccaatc aacgccgcag 120
 cagtagggac gcctataaat gcctaggtgc gtgcggggcac taccactacc agtcagggca 180
 agactcgcag cccggacaag gtaaggcgac gtacggcagc gatggcgccg gtggtcatga 240
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 gcgccacggc cacaccgtcc gtggtgctgc cgccgatgac ggtgccccgt gtgcgcggcc 360
 ggttgagggc cggtcgtaag ctgcaggccg tcgacgccgt cgggatgggc atggactccg 420
 tgggtgcg 427

<210> 43461

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-020-Q1-K1-A7

<400> 43461

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 aaccggggcg gcggcaaggt cgggcaggcg gatcggctag ggcaggacaa gggcggggcac 120
 gcgaagctgg cgtgccccgt ctgccgcacc ccggcgccccg acatcaagtc catgcagatc 180
 caccacgagg cgcgccatcc caagctccct ttcgagccgg agaagctcgt caacctgcac 240
 tcctccaccc cctccgccgc cgaggccacc acctccaagc ccaagccccg ggtccgcggc 300
 agcctcaaga agtagctggc tggcttgctt gcctgaactgc ctggggtaat tcccttcgat 360

ttcaatccca tccaccgacc cgatctacaa tcaatcaaag tac

403

<210> 43462

<211> 383

<212> DNA

<213> Zea mays

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<400> 43462

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catagatttc tttggtggag gaaggatgaa ggcaacaaga ggaggttaca ggtagcccaa 180

tagatctact gctgttgagg gagtttatgc aaagctgagt tgctgctcgt tggctttatt 240

tagagatggc ttcagctggg gttgaccctt ctgggtacaa gaacagcatc atcaccagca 300

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ttgaagcaac cataattaat ggg 383

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<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-F4

<400> 43463

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ctcgggacca tcgtacatc agtgcttctg ctatattgag ttgaccgact atatccgcag 120

acgcatgtca tcgtctactt aacctgcaga tctatagctg tttctacctt ggggagtagc 180

ttcataacat ctggaatacc attgaatgtg acacttcacc gatcgaactc actaatttac 240

cacattcatg ggcactcaac ctgcatgcaa taaatgtatc actactcaag tgactaacta 300

ctacacatg 309

<210> 43464

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-F5

<400> 43464

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aagggtcgaa ggtcgattca gcgccgtcct caccggagct tgtccacgcc cccttggtccc 180
ttcgcgcccc ctcttctctc ggagaccacc acgctgtcct tgagcccgtc ttctcgggaa 240
acggcgcttg acgccctgca agcgggacga ccccgctccc catctacggt gaatattcgc 300
ctgtgggacg agcccatccc acttctcctc acatccaacc aaacgccagc gagaagagga 360
ccgtcccgtc ccgttacggt tcgtctctcc acccctagtt ccccaaaccg gcgcacgat 420
tcacgaacc cttgccggag a 441

<210> 43465

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-F6

<400> 43465

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agccagtacc aaattattca tcaggaagat tttgggtcac cagggcaaaa gaaacatgaa 180
gatgctatth cacaacagcc acagatattg actcctgtcc agactactgc tcttagcatg 240
cataatgaaa aggtatctga aatggacagt cagaatgtc cttcaagcat tggagggttg 300
agcatgcaat caggggatcc gagtgctaac attatagcag agcaaagcct gggtaaata 360
cttcagagac atgatecaat ttctcatatt cctggggccac aaacgcttcc gatcaccaca 420
caaccacaga atgttacgct ttcattcgca 450

<210> 43466

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-F7

<400> 43466

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agggttatcc gaaatgacta tcgcatatt aatgcttact accaggaccg acaagcttta 120

cagagtcaagt acgatctgaa tgacgatcgc aatgccaaact cagcagctgc acgttacaca 180

gcacgaacac tagttcacat cagccacgaa actaaactca cttccagact ac 232

<210> 43467

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-F8

<400> 43467

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ccttctttga ctgtgtatgt atatatatgt atatgggtta ttccattaca aaatagatcc 120

aatacataat ctaaaaattc ccacattaaa acacaaaccc gaactacatt gaaatctaac 180

cgattttata ctaaaaaccg gcttaacggc atcctaaaac ataagtgtta cagtgatata 240

aatacccaac taaccagatt acacatctta ccaggcctgt tttcaactac tagccttttt 300

atcttcttgc agactctaaa catcatgaat cattaac 337

<210> 43468

<211> 241

<212> DNA

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<223> Clone ID: LIB3076-019-Q1-K1-F9

<400> 43468

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agatggctgc ttcatacctt tagtaccgct gcttctctgt ctggctcacc tgctacacac 180

tacgaccact acgtccacaa cgccttcagc acctacgctt aagtcctaga tcataatatc 240

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<210> 43469

<211> 417
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-019-Q1-K1-G1

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 aaggcggacg cgcgcgtgct catcaaccgc gcgcgggtcg agtgccagag ccaccgactc 360
 accgtcgagg accccgtcac cgtcgagtac atcacccgct acatcgctgg gctgcag 417

<210> 43470
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-019-Q1-K1-G10

 <400> 43470

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 ggatgccatc cgatcaaaca gtgaatggat tatgttctcc ggcaaccagg ctgaagttcc 180
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 gcccagtatg atttatcacg cggctcgatt agttgggttg cttgaagcat atgcggtgta 300
 tgatccagag attggctact gccaaagtat gagtgatctg ttgtcaccta tcattgcggt 360
 aatggaagag gacgatgagg catTTTTGGTg ttttGTGGGT tTcatgagga aagcaaggca 420
 caacttc 427

<210> 43471
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-G11

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cacgaagctg ggggtgaaag gcttgggtga ctccggcgctc aagtccatcc cgtccatctt 180
ccaccacccg ccggaagccc tgagcgacat aatttctccg gcgccgcctc tgccgtcgtc 240
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agtcgagcag gtgaggcacg cggccgggac ggtgggcttc ttctggctgg tgaaccacgg 360
cgtggcggaag gagctgatgg gcggcatgct ccgtcgtgtg cgccagttca acgagggccc 420
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<210> 43472

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-G12

<400> 43472

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gctgaacgag ttccacctca tctctttctc ggagggcttc gacctgtccc cgctcttcga 180
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ctcggggggc cggctggcag tggccgcgga gatcttcagc gtggcgccgt cggtgctcct 420
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<210> 43473

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-G3

<400> 43473

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ctgactctag ggagttcaaa catcctgctc gagacgccga tacagaagca cctccgagtt 180

acaaggaacc tgattttgag actcgtgctt tgcaacatag cagagttaag ctcacctggg 240

atgatgatga acctgaacgt aagaaagtct tgaagctaaa gttcaatgat gatcagctag 300

atgagcttaa catgtattta acaagtgatg acagcgcgtc agataatgaa agtgtagacg 360

attctgagga tgaatctct 379

<210> 43474

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-019-Q1-K1-G4

<400> 43474

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gtactacaat gatttcttga gaaactgcag cacggttgat ggagagtcaa gggaaaaatt 240

ggcacccctat gcaggcttgt catctgaaga aagctaccag agtcgcgacc ttgaaaaggc 300

atctcagcaa gtcgcaaaga atctgtacga gtccaagggt cagccaacaa cattgatccc 360

aaaacaagtt gggaatatgt atacagcgtc actctacgca gctcttgcat cggntgtcca 420

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<210> 43475

<211> 442

<212> DNA

<213> Zea mays

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<400> 43475

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cggaagggca acgccggcga gcgcgtcacg tgcacggaca ccgtcggccc tagcgggtgat 240
aagaagttca cacccaagct ccaggactcc aagtccgtgc gcaagatcgc gtgcctagac 300
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gcgcgggtcg agtgccagag ccaccgactc accgtcgagg accccgtcac cgtcgagtac 420
atcacccgat acatcgctgg gc 442

<210> 43476
<211> 328
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-019-Q1-K1-G7
<400> 43476

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ccaacgtatg aattctacca ccacatgttg ctcatatact actaacatct acaattacac 180
cgtacctacc atatgcatat actctactct gcaacaccag ctcatgatta actagttcga 240
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attaagact tatttaacaa tctataac 328

<210> 43477
<211> 424
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-019-Q1-K1-D9
<400> 43477

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agcatgggta gccaggaagc caactgtgga agcagcttcc tgcgcgagtc tgttgctaag 240
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 gacgggatgt gtataaataa acccagcatg ctgttttttt tttcgtcgtc atcgtgtgct 360
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<210> 43478
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-E1

<400> 43478

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 tgtagtccac cccgcactga ttttcgcata cctgtgttaa gctggttact tatcaacaca 240
 tcatgaactt cactctatct tacacgatcg atactacatc gaagttccat ataatatc 298

<210> 43479
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-E10

<400> 43479

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 cctcctcctt gtctcatcc tcgccccgct cgtctccgcc gtgcccacgc caagaagcct 180
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 gacgacggcg atcgcggcgg cgatgatgaa cacgggcagg ccgacggcga ggggtggacgt 300
 ggaggtgaac gactaccagc cgtccggccc caacaaccgt cacgaccac ccaagggctc 360
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<210> 43480
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-019-Q1-K1-E11

 <400> 43480

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 aagagcgcaa gatgttcggc ttcgggcacc acggccacca cggccagaac ccgccggcgc 120
 acggcggcgt gcaccagccc accttcaaga tcttctgcaa ggccgacgag ggtactgcc 180
 tcaccgtccg cgacggcaac gtggtgctgg ccccgccaa cccgcgcgac gagcaccagc 240
 actggtacaa ggacatgcgc ttcagcacc aggtcaagga cgaggaggc aacctgcgt 300
 tcgccctggt caacaaggcc actgggctcg ccatcaagca ctccctcggc cagtcccacc 360
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 gcggc 425

<210> 43481
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-019-Q1-K1-E12

 <400> 43481

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 gagataagcg caagatgtta cactttatgc accactgcca tcatggtctg aacctgcgg 120
 cgcacgggtg cgtgcaccag cccaccttca agatcttctg caaggacgac gatgggtact 180
 gccttaccgt gctctacagc cacacggtgc tggaccctga cgaccggtgc gactagcacc 240
 aatactggtt catggacatg cgcttttagca cctatgtcaa ggactaggag ggcaaccctg 300
 cgttcgccct ggtctacaag gccactgggc taggcttcaa gcactcc 347

<210> 43482
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-E2

<400> 43482

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ggccggcacc attccccccc gtcgcatatc acgcccagcg caccgattgc aaatcagtcg 120
tctccgatgc tcttagcact cgccccgacc gcgccgtgga gaggagagga gatccccctc 180
gacgctgtac gagacagggc ttcaagaccg acctctggcg cggaggaccc ataagctcgg 240
cgccggccgc cgcgacatga atggctcgac catcccttca gtcgcatca tgccctcgcc 300
ggtcttctc tggcagctta aggttgtgtt gccacttcta tgtggcttat gttagtgcga 360
gatagggttg gactcagtta tgagaatgag cgttgatctc agagacctat ttcttta 417

<210> 43483

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-E3

<400> 43483

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gacatttacc attcgatatg ctaaaaatct acataaaata ttgcaccaca gagctccggc 120
actactgctg catccaacca atgctgctct gactatagta catcatatcg ccgatgtact 180
t 181

<210> 43484

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-019-Q1-K1-E4

<400> 43484

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gcccacaagg ctaagcacca accatggcct tcggagctct cgtcacgtcg aggctggcca 180
ggtccggccg cacccttgca tctgccgttg ccagggtcc cgttgcccag cggatagcac 240

ctgctctgtt ctccaggttt ggagcagtag ctcgtcttct cagcacaaag ccagccgcaa 300
cagatgtcat aagtatcgat ctaggcacia cgaattcctg cgtctccgtc atggaaggaa 360
agacaccacg ggtgattgaa aacgcagaag gcgcgaggac aacaccctnc attgttgcca 420
agaatcagaa tgggtg 435

<210> 43485
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-E5

<400> 43485

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gacagattcc agtcttgggtg cttagaatct acgtagaatg tagttccgca gggctccgcc 120
actaccgctg tgtccaacca ctgctgggtg tacttcgctg cttctactcg acgatgtact 180
ggatcgacgg ccggcagcga tgttccgaca cttcaatgc gtttgcgcaa gtgctacgga 240
tctgtacatg cacgcgtttt tgttcgatcg ctacgggtcac gaagtactgt ctttttccga 300
gacatactgt gcgtattgag etc 323

<210> 43486
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-E6

<400> 43486

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atcgtatgct ttccggccga ctacattgct agccaaacac gctgtcggcc atagccctct 120
ccaagaaaag taagcaataa ctacgactgt ctgagttcac actacattga agctgtccaa 180
aagctggcgc agcctttcat ttatcactga ccacggaagc attgaccatg 230

<210> 43487
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-E7

<400> 43487

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gccatatcat atcatacacg ctcttcaact acataccata tgctacagca acatcactcc 120
atgtacaaat cataaaaaca acgccattct aactctccag cttcgatttg accatcgaca 180
agcgctaccg caccttttac tctactcgat cacaatactc cttatcccct acttcaaggc 240
atcaccattt gaagctgacc aagcgctatg acatcggtgc ggacaaactg tctattgcca 300
ttactcaaac catcctaaca ccctacctgt ccgaacaaat 340

<210> 43488

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-E8

<400> 43488

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ccgaccaata tgctacaact attgaaggct accaaagcta ttctcttgaa gaaggaccac 120
atcgatgccc aggccacaca acgctccaag tactcataat ttccgg 166

<210> 43489

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-019-Q1-K1-E9

<400> 43489

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gcagaagaca atacaaagat gtccaagatg gcggaggaga aggcggcggc agtgggcgga 120
ctcgaggag ccggggcggc ggacgcggcg cagcagcagc agctggcagc aggggaggcc 180
gcggcggcgc ggggtgcggcc cgtggagacg ctgcttcgcg cggcaccgct ggggctctgc 240
gtggccgcca tgaccgtcat gtcctgaac cagcagagca acgagtacgg cgccgtcgcc 300

tactccgacc tnggaggctt caagtacctc gtctacgcca acggcctctg cgctgcctac 360
 tcgctgggtat ccgcgttcta cactgccgtg ccgaggcctg ccaccgtgtc gcgctcctgg 420
 ctc 423

<210> 43490
 <211> 389
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-019-Q1-K1-F1

<400> 43490

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 accggtggga agaagaagat gaagaaggcc acttcgctct ccgagctggg ctctgacgcc 180
 ggcgacgcgt cgtcgggctt ctccgccct gtgtccggcg actcgtcgac gccgacgtcg 240
 cagcaccacc ggcggaggct gaccaagggtg tcggtcacgc gcgcgggcaa cgtggggatg 300
 gccatcgcg agaccatcct nacgcgcgac ctggccgacg agatcgcgct ggtggacgcg 360
 gtcccgga agctccgcgg ggagatgct 389

<210> 43491
 <211> 430
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-019-Q1-K1-F10

<400> 43491

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 gtgcctacaa tattgcagac aggagagctc ctccagtcta tgtaatctt tttactggtc 120
 aagcaacaac acaatttcca agtatgactg agactgtaag aggagggata ctagcagacg 180
 caatgggtct tggcaaaact gtgatgacca ttgctctgat actttccaat cctagggggg 240
 agttctctaa ctgtataaaa ggagacacaa ggtatctagg agatcggtcg accagaggat 300
 acatttcaac atcctctggt agaggaggta cccttggtgt ttgccctatg tcattattgg 360

gccaatggaa ggatgagttg gaagcacatt cggcaccagg agctctntct gtgtttgtgc 420
attatgctgg 430

<210> 43492
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-F11

<400> 43492

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gtagctacaa gtatgttaga ctatcagaac tactgcaacc tatgttcata actcctactg 120
ctcaagcaac aacacactat tccaacttga ctaatactgc aagaccaacg atactaactg 180
actcactgtc tgttaccaca actgggatct cgattgctct aatactttcc actagtagca 240
gcaatgggtc taactcattc acttgagacc caaggtcata tacgagatac ggcaatcata 300
ggatacacct gatcactactg tcaactgagct cgtacatcta gcactctgtc gtatatgatt 360
attcggccaa tctaatacgc atcaaacacgc acatccagga caagtagctc tttttgactt 420
agagcatt 428

<210> 43493
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-F12

<400> 43493

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gcgggtgttc gcgggcgagc tgggccccga ccgcgggcgac atgtacatct acagccggca 120
cttcaaccgc acggtgctgg cgctggggcg gcagatggcg gcgctggagg gcacggaggc 180
gggctactgc acggcgctccg ggatgtccgc catctcgtcc gtgctgatgc agctgggtggg 240
cgccggcggc cacgtggtgg cgtcgcggtg cctgtacagc gggacacacg cgctgctggc 300
ccggttcctg ccgcgcgctc tcgggggtgcg cgccaccttc gtggacgccg acgactaggc 360
cgctcgtgcgc gccgcggtgg tccccggcga gacgcgggtg gtgtacgtgg agaccatgtc 420

caacccgacg ct

432

<210> 43494

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-D8

<400> 43494

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caccatataa caaggctcag atacacaccg aacacaccta ctgcaatca cagcatca 118

<210> 43495

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-F2

<400> 43495

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gacgaaagga gggagttttg agaagcataa atggctccta aagccgctcc tgtcaagaag 120

ggtgatgcca aagcccaggc cttgaaagtg gccaaggctg tgaaatctgg ggcaggcaag 180

aagaagacca agaagattcg cacatctgta acatttcacc agcccaagac cctgaacaag 240

gccaggggacc cgaagtaccc aagaatcagc actactggaa gaaacaagct tgatcagtac 300

caaattctca agtaccatt caccacagaa tctgcaatga agaaaattga agatacaaca 360

c 361

<210> 43496

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-C11

<400> 43496

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tatgtttcta cgacatgccc cctacgaaaa atatccatac acccaaatta catcccaact 120

ctactacttg attgacttcc aacacgtacc tgtccttaac caatgaattc caccactaag 180
aaactaaaac ctctatctca tgaaaacacc agacttctta tcgaacataa cactgacatc 240
aacctaccta taatgaccat aaaatccac ttaaacattc accctctttc tatcttgaac 300
atcacgacca caacttaccg gactacg 327

<210> 43497
<211> 158
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-019-Q1-K1-C12
<400> 43497

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aaaaataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa tggcatatcg ttaaaagt 158

<210> 43498
<211> 327
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-019-Q1-K1-C2
<400> 43498

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ggagggggcga ttgcagccgc tgatgtggag taccgttgct tcgtcggcgg acttgcttgg 120
gacaccatca acaagtcgct ggagaatgcc ttcgcctgct accgcgagat cctcgactcc 180
aaggatcatca ccgaccggga tgacggtgag gtctcgcgga ttcggcttcg ctaccttctg 240
ctacgagaac tccatgctcg actctatcaa gaacatgaac ggcaaagagc tcgacggtcg 300
taacatcacc gttaaccatg ccagtc 327

<210> 43499
<211> 166
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-019-Q1-K1-C3

<400> 43499

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caccgagagg attatctctg gtttcgctgc ttatgtaatg cttttgaaac gatgaacgaa 120
gctacatgct ctacagatgc tttgagaagt ataacagata acctac 166

<210> 43500

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-C4

<400> 43500

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tcagggtagc caagtactga acgtagaaca taatcaaatt ataaaggcat atcagagtat 120
gggacagggg gaccttccga agttcacagt gatcattgct caaaagaatc accacacaaa 180
actcttccaa gctgattcac cagagaacgt tccacctggg actgttgtgg actccggcat 240
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aaggccaacc cattaccatg tgttgcttga tgagattggc ttctctgcag ataactctca 360
gaagctagtt ctttactgt catatgtgta ccagaggagc accactgcga tttctgtggg 420
ggcaccta 428

<210> 43501

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-C5

<400> 43501

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aaggcaccga gaaaattatt actgctttta ctgcatatgt aatgcttatg aaactatgaa 120
tgaatctaca tgctctacac ctcatcttat aagtatacta aataaactac aggcct 177

<210> 43502

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-C6

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ctttcacaac catcactgaa gccatgggtca cggtgaccat aactgaacg tataacataa 120

tcaaactata aacgcatatc atactatgac acacggagac cttccgaagc tcacagtcac 180

catctctcac tagaatcacc acacctaact cttccaagct tattcaccac agaacgttcc 240

acctgaaact gtatttgact cctgcatact tcataccaaa cattattatt tctacattga 300

cactcatgcc agaccaattg gtacttcaaa gccaacccat taccatgtgc aacctgatga 360

gattggcttc t 371

<210> 43503

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-C7

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cgagcgggtgt gagacggcta tggcgtgctg ctccgcctgc ctgcaccatc cgctgggctt 180

ctcactcacc ccgtgctccg cctcccgagc cccaccgcgc atccagcgcg tgggctggtg 240

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ctactacggt ggcgccagcg ctgcccctgg tctggtggag ctaccgcg 347

<210> 43504

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-C8

<400> 43504

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tgattttgac acatctaata caccaatatt tataactccaa ataacctacc tatgttcata 120
agacttatac agcattcata aacttgcata ctttattgaa cgtttctatt aacacagata 180
attcactatc aagaagaatc aaaactctaa tgaatgacta tctacatact cagcttatgg 240
aactatttca aagcctatca ttctattttc gcaccataac tcaatactac aaatctaaaa 300
tactcaacat ataagatgct taactacttt tacttcatca acatctcttg gtcgacaccg 360
atatctccct taatcctct 379

<210> 43505

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-C9

<400> 43505

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gaatacaatg ggggtacaatc gtacagtatc ttacgagagg tgaagtaggt gataagggtc 120
ttattggaca tatggtagaa aattgtggaa atctcagtgg actaaatgca tcaactgcat 180
tgacggatat tattgacatc atctatcaga cgacaggatt gtcaggatga tgactaagtt 240
catctttttg acttgaatga caaagaatgg agcagtgtc 280

<210> 43506

<211> 125

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-D1

<400> 43506

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acggagccga gcgagacgac gagaccgca ttgctagcta gctagtccgg gcagcgagcc 120
gggtg 125

<210> 43507

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-D10

<400> 43507

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aggatctcat cgacgccgct aggtacgacg acttgaggga cgtcgtcgcc ctgttctccg 120
ctgggtgtctc gctggactcc acagattcgc aaggccgcac agctcttcac atggcttctg 180
ccaatggtca ccttgctgtg gtggaatact tgattcaaaa tggagcgaat gttaacgcca 240
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tcagggcttt gatctcagcg ggggctagcg tgagtgtctt gaacagccac gagaaaacgc 360
caatggacga agcggtgacc acaggcaaga tggacgtgat cgacgcgacg ggtgcggcag 420
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<210> 43508

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-D12

<400> 43508

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ctggataatc tctctcttg tctacactgt cttcatcact ctgcacactg ttggaacctt 180
ccgatctcat gctctgactg taaagagttc gcgggaaccg ttggatcttt ccgtcatctg 240
gccactgatc gtctgatatg ttctgtgatc ccccgacccc ctgtttctac tggtagacgg 300
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<210> 43509

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-D2

<400> 43509

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aacggggccg agcgagacga cgagaccgcg attgctagct agctagtctg ggcagcgagc 120
ggcgtgagac ggctatggcg tgctgctccg gcgtcctgca ccatccgctg ggcttctcac 180
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tcctcggacg acttgcgccg tcctctttct cgcgccagga tctcaccgag ctgtacctac 300
tcccgtggcg ccagcgctga ccctggtcct ggggagctac ccgcggctgc gctgcgacgg 360
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<210> 43510
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-019-Q1-K1-D3

<400> 43510

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cgcagatgta ctgcgtgctg ctcgagacct acatccgcga tggcaccgag aaggaccggc 120
tcttccgcgc catcgaaacc gtccgcgcgc tacgccgcaa ggacgactgg gccatgcgct 180
ggatcgacgg ctgtgagcgc tttgccgagc gcctcgttgc cttcgctgc gtcgagggca 240
tcttcttctc gggctccttc tgtgccatct gctggctgat gaaacgcggc ctcatgccgg 300
gcctcacttt ctctaagtag ctcatctccc gggacgaggg cctncaactgc cacttcgctt 360
gcctgcttta tgacctnctt cagcgcaagc tcgatgag 398

<210> 43511
<211> 195
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-D4

<400> 43511

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cacggatgta atcgcttctg ctagagacct acatctgata cagtacctat aattaccggc 120
tgttctagac tgtcccaacg atgatcaccg tatgcactac ggattactga cccatgctct 180
tgatctaccg ctcaa 195

<210> 43512
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-C10

<400> 43512

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tctctttctg tatcgctttt gagagccgca ccgctctcga atcaagaaag gcttgtgcta 180
aggaagcaag ccccttcaa at gaagaaaaga cctgactttc catagggagg aacaatgcc a 240
tcaccggagt tgcaaaaacc ataaaaacgc acttcaagaa gcaccctctt gctatcgtga 300
acatcaagaa cagagcggac gggactccga ttcagcagct gatatcggaa ctcgaggagg 360
cgacaggatc ggtgctagtgc tcacgagaaa ccaacaaagt gatcttgtac 410

<210> 43513
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-D5

<400> 43513

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ggtgtgagac ggctatggcg tgctgctccg tcgtcctgca ccatccgctg ggcttctcac 180
tcaccagtg ctccgactgc cgagccccac cgcgcattca gcgcgtgggc gtggcaacta 240
cctcggtcgg ctccgcccgc cctctttctc gcgccaggat ctcaccgcgc tgcacctact 300
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<210> 43514
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-D6

<400> 43514

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agcttcacag tcttttgtgc agcttgggtt cttgatggcg ctgcctatga tgatggaaat 180

tgggtctagag agaggattca gaactgcatt gagtgacttt gtacttatgc agctccagtt 240

agcatctgtg ttcttcacat tctctcttgg gacaaaaact cactactacg gaaccacact 300

gctacatgga ggagctgaat atagagctac agggcgtgga tttgtgggtg tccatgccaa 360

gtttgctgag aattatcgat tgtattcgcg aagccathtt gtgaaggga ttgaactgat 420

gattttgctt attgtgtatg 440

<210> 43515

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-D7

<400> 43515

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gactaaagaa tatggatgga tgtcacttgg tatactcatg ctgtgtatga caggatctga 120

agcaatgcag gctgatcttg aacatgtgtc atacattgca ctccatattg ctatcaatag 180

tctagtttac cccgcactga ttacgtcat acatgtgtca agctgcttac ttatcaaaac 240

atcatgactt ttactctagc tcacaatctg gatactacat ctcaagttcta gataagatca 300

catgtccatt gatgatattg acatattatc tactacggcg ttcataagcc aagcaataat 360

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<210> 43516

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-A3

<400> 43516

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gacagggcctt ctaaaccaca tagggcaagg gaaaatctca aggatatcca ataactcggc 180
aatatattac tttgtgtcac cctatcaggt tctgacctg cgttgtcact ataaggatta 240
caatctgcat ccctaatt 257

<210> 43517
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-A4

<400> 43517

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gccgggcaga tgcgtcgaaac ctctacgctg ctgcagaagc caagcctctc tcgtgcaacg 120
agcaccacac acacacggga tggcactcct ggtgctgctc g 161

<210> 43518
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-A5

<400> 43518

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aaaggaagat ctcaagaaga tagataactg gcaatatatt agttgggtca ccctatgggt 180
tcggattctg ggggtggcact attaggatta ccatcttcat tccttaattt ctttaaggct 240
ttaagtgata tgagaggatg gtcacactaa ttcacaggca cagggcactc accgttgaca 300
ctgaaccttg cgcaaagtgt aaacgagctt tacacttgca gtcagatggt ctatccaatt 360
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agaacaaaga tcaacttttc ggct 444

<210> 43519
<211> 444

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-019-Q1-K1-A6

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 ccgggcgcaa ggtcggcggg ccaaggaaga agtcggtgtc gaggtccgtg aaggccggtc 180
 tccagttccc cgtcggccgc atcgggcgct acttgaagaa gggccgctac gcgcagcgtg 240
 tcggcaccgg cgccccgctc tacctcgccg ctgtcctcga atacctcgcc gctgaggttc 300
 tggagctcgc cgtaatgct gccagggaca acaagaagac tcgcattatt ccgcgccacg 360
 tgcttctggc gatccggaac gacgaggagc ttgggaagct tgtgggcggc gtgaccatcg 420
 ctcacggcgg tgtgctcccc aata 444

<210> 43520
 <211> 269
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-019-Q1-K1-A7

 <400> 43520

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 tcggcaggac gcaaggtaag cagggtcaatg aacaagtcaa tatcctgggt cggaaggcc 180
 agcttacaat tccgaataag tcgtataagg cgctacttga agaagggcag ctacacgcag 240
 cgtatcagaa cggacgcaag ggtgtacct 269

<210> 43521
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-019-Q1-K1-A9

 <400> 43521

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 gtcactgata tatctatcac aacttaatga ctgccaaggc gtcactgatt cctgataata 180
 ccataattcc aataaacacc atgatcatca taggcgttta ctgattgcac tctgtgtcga 240
 acgtcttata aatccttata accattccaa actgcaaata gaacacccat tctcgaaatc 300
 tcccaatct 309

<210> 43522
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-B1

<400> 43522

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 gctccccacc aacttccgca agcagctcac tgtgcagctg aagaagctcg ctgccgccgg 180
 caagctgacg aggggtgaaga actccttcaa gctgccggcc accgacgcca agcccaaggc 240
 cgccaagccc aaggcaccca aggccgcgcc caagcccaag ccctcgccga aggcgaaggc 300
 caagaccgct gcgaagccca aggcggcgct gcccaaacc 340

<210> 43523
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-B10

<400> 43523

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 acctgcattg tattagcacc gagaagagga aggtagaagt agagaggggtg gagatgctca 180
 agaaagaggt ggttgaactg aaggaagtca ttgagggaaa ggactttgtg cttcagggtc 240
 acaaggaaca gaaggtggaa ctcttctcaa agatcaggga gttgcaggaa aagctctcag 300
 cacaagtgcc aatcatcttg taagatctat ctgtgatact ttttagaaga ttgaatctaa 360

gcataatgtt gccatgtccc atgagcagca gaaggggtcc cgcttcagtg aag 413

<210> 43524

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-B11

<400> 43524

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gttcctgccc tctccgacaa agctgagggg gctcgaggct atactgacta aactcctacg 180

ctttatcgac ttccagaaca tgcacaatgc caattcttac gcatgctcag gaagtgtccc 240

caagaatcaa gactatgggt tcaggatgaa cacactagca gcagacgacg caaaggacaa 300

gaattctcaa tagcaggcat ttgttgatac tgctgattgc aaagcatcag atattgatgg 360

tcatga 366

<210> 43525

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-B12

<400> 43525

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ggcgcgtatc cggactaccc tgccaccgt cgacgtaggc ggacgcttcc ttctccgccg 180

ggtcgcgggg cgccagccgg cgaggcgcg cgtggtcgtg gagggccggg ggggcagggg 240

ctggtcggag cggcagatgc agcagcagcg ccgcgcgccg ctgctgccga aaatcgagga 300

cgacggcaac ccgcgattcg tcatcttcat ccgcaccgcc aatgtctact tctggtaccc 360

gctcaacatc atcacgggcg gtacgacggc gaagatcatg etc 403

<210> 43526

<211> 85

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-019-Q1-K1-B2
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<210> 43527
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-019-Q1-K1-B4
 <400> 43527
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 aatggatgat ctcaggaaga tagataactg gcaatatatt agctgcgtca ccctatcggt 180
 tcagtttctg tgttgctact ataaggatta caatctccat cccttatttt ctgaaggctc 240
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 <211> 327
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-019-Q1-K1-B5
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 acaaactcgt taccaacttt cacaagcagc ttactgcgca gctcaagacg ctcaactgtc 180
 acgacaagct gacgaggggtg aacaactcct tcaagctgcc tgccaccgac gccaatccca 240
 tcgccagcaa ctccaaggta cccaacgacg cgcccaatag caacacctcg cactaagcga 300

atgccaatac cgcttccaag cccaagg

327

<210> 43529
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-B6

<400> 43529

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caccttactc aaccgccaca ccctgtcgat actcatggat ctttgcaacc tctaagccaa 180
ccccgatgca ttggcctccc tcgtacgcta gctctcctgt gctgctcctc caaccttcac 240
cgatggttac ctcttcttg agcaacgtcg accagtaatc agactcgtca attacgcca 300
cgtactccta cggccttcac cgcttctact gagctgctaa aaagtctgaa tgcaaccggt 360
gtagttgttc aagcatgaca agatcttgct gctgga 396

<210> 43530
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-B8

<400> 43530

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cttcaacacg ttcttcagcg agactgggtc cggcaagcat gtgccagggt ccattctcgt 180
cgaccttgag cccactgtca tcgatgaggt tcgcactggc tcgtaccgcc agctcttcca 240
cccagagcag ctcatctcgg ggaaggagga cgcagctaac aactttgccc gtggccacta 300
cacggttggg aaggagattg tcgatctatg cctggaccgt gtgcgcaagc ttgcagacaa 360
ctgcactggg ctgcagggat tcttggtgtt caatgctgtt ggtggtggta ctggctctgg 420
acttggttca ct 432

<210> 43531
 <211> 395
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 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-019-Q1-K1-B9

<400> 43531

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<210> 43532
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-C1

<400> 43532

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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-A2

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cggcaccgtg agcatgggct aaggctaaga acgaagcggg ccaacacaag gtccgccttc 180
caaggaagaa accagggctg aggtccctga aagccgatct tcaattctgc gtacgacgta 240
tcgggcgcta cttgaagaag ggccaatact cacagtacgt cgggtaccggc gcccatgact 300
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<210> 43534

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-G2

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atttcacctg ggaaagtggc ggggggggtg tggaggtgga agagaagatg gcggtccctg 180
taaactgctg ctgcagtaaa taatccctgg aatttgtctc cctgcattta aacaaaatat 240
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<210> 43535

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-G4

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<210> 43536

<211> 153

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-G7

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<210> 43537

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-G8

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<210> 43538

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-G9

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<210> 43539
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-H10

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acaaattaat gaccaggaga g 381

<210> 43540
<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-H11

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tacagaactg atctatcgaa cgattttggc ctattatata cagatgctac actactacat 180
gacactgcta caacatatta gtttcctcta tc 212

<210> 43541
 <211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-018-Q1-K1-H12

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<210> 43542
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 ccccgccgc gtccgcttcg cgcgctgcc caccggcaac ctccacgtcg gggcgcccg 240
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<210> 43543
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-H4

<400> 43543

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gggagcggcc ggtcgcaagg cggcggggcc gaggaagaag tcggtgacga ggtccgtgaa 180
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gcagcgcgtc ggcagcgggtg cccccgtcta cctcgcggcc gtcttgaggt acctcgccgc 300
tgaggctctg gagctcgccg gcaacgctgc caaggacaac aagaagacgc gcatcgctcc 360
gcgccacgtg ctgctggcga tccgcaacga cgaggagctc gggaagctgc tgaccggcgt 420
gacca 425

<210> 43544

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-H5

<400> 43544

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ccgcggggcg ctctccgccc ggcctccgc cgccaccggc ggcgcgagg gcaactccgg 180
ccccgtccgc gtccgcttcg cgcgctcgcc caccggcaac ctccacgtcg ggcgcgccc 240
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cgaggatacc gacctcgagc gctctaccag gaagtccgag gaggccgtcc tcgccgacct 360
cgcttggtc ggctcgaat gggacgaagg tctgacgtc ggtggggagt ttgggcctta 420
tcgccagtca gaacggaatt cact 444

<210> 43545

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-H6

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caacttctac catggacgcc accggcactg gagctggagg gaaggcgaag aaggagcgg 120

ccggctgcaa ggccggcggg ccgaggaaga agtcggtgac gaggtccgtg aaggccgggc 180

tccagttccc cgctggccgc atcgggcgct acctcaagaa gggccgctac ggcagcgcg 240

tcggcagcgg tgccccgctc tacctcgcgg ccgtcctgga gtacctcgcc gctgaggtcc 300

tggagctcgc cggcaacgct gccaaaggaca acaagaagac gcgcacgctc ccgcgccacg 360

tgctgctggc gatccgcaac gactaagagc tcgggaagct gctgaccggc gtgacca 417

<210> 43546

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-H7

<400> 43546

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tcgccgtggc tgcccatgcg cctctctccg gacgcgcctg cgcgcgccctt ccgcgcctc 120

tacctccgcc gggcgctctc cggccgcgcc tccgccgcca ccggcggcgc cgagggcaac 180

tccggccccg tccgcgtccg cttcgcgcgg tcgcccaccg gcaacctcca cgtcggcggc 240

gcccgcaccg cgctcttcaa ctacctcttc gcgcgctcca agggaggacg ctttgtgctc 300

cgcgtctagg ataccgacct cgagcgtctt accaggaagt ccgaagaggc cgtcctcgcc 360

gacctcgt 369

<210> 43547

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-018-Q1-K1-H8

<400> 43547

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gcgatctcgc aaggacgacc aggtgcaggt cttgcgctgc acctacaagg gccgtgaggg 120
 caaagtgggtg caggtgtacc gccgtcgctg ggacatccac gttgagcgga tcacccgcca 180
 gaatgtgaac ggctgcaccg tgaacgtggg catacatcct tacaaggcca tggttacaaa 240
 gctgaagctt gacaaggacc gtatggctct cctcgaccgt aagggtccgtg gccgtcccg 300
 cgacaaggct aagggcaagt ttactgccga cgacgtcgac gacgtgatg gtggcgccgc 360
 cgncactggt gcgtatctgc aagagatcga ctatgcgcat tctgggtgatc tgatggtgcg 420
 tctaccgcct attactgctt at 442

<210> 43548
 <211> 125
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-H9

<400> 43548
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 gaactcctgc gtgaagttca ttccgtccat cttcgactaa ccgccggaag ccctgagcca 120
 cataa 125

<210> 43549
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-A1

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 tcaaggccaa gaacggcggc gccttcccca aggccgacaa ggccgccgcc gccgtggaac 180
 ccaagttcta ccctgccgac gacgtcaagc cccgcgttcc cagcaccgcg aagcctaagc 240
 ctaccaagct caggtcgagc atcacgcctg ggacggtgct gatcctcctc gcagggcgct 300
 tcatggggaa gagagtgggtg tttctcaagc agctcaagtc cggcctgctc cttatctatg 360
 ggcctttcaa gatcaatgga gtaccgat 388

<210> 43550
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-A10

<400> 43550

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ccaagcccggt cgacgtctcc cgcttcggcg tcatctacgc cggcgcacag aagaacgtcg 180
ggccctccgg cgtcaccatc gccatcgtgc gcaaggacct catcggcgcc gctcagccca 240
tcacgcccgt catgctcgac ttcaagacgc acgccgacaa cgcctacctc tacaacaccc 300
cgacctgctt cgccatctac gtttgcggtc tcgtcttcga ggacctgctc gc 352

<210> 43551
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-G12

<400> 43551

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ccgctcagag atatccaggc atacatcatt aacagcctgt cacgcgtacg gctggtgaac 120
ccagacgatg actcctagca cctcatgatg ctcgtaggtc acctgctgct cacttacatt 180
gccagcttca aaggcctgta ctggaccacg tcatagccgc acttcagata tgaattcatt 240
cctggcccta gctttcataa gcacatggat aaccgctcat actagaacta gctcgcatgt 300
gtccaaactt ttgccataat cgctggctt 329

<210> 43552
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-019-Q1-K1-A12

<400> 43552

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aactttttgca ttctagaagg ctcgatgaca actgatcatg ccatcactta caccacaat 120
actattgatg gaccctcagt ccattacttg atagctcgca gtgctgcca ctttaacatc 180
attcccaaca gcaccgctgc ttccaaaact atcggaatgg atcttctga attgaatcgc 240
aatctcactg gcatatcctt ccgtcatccc accaccaatc tgtcatatgt atacctcact 300
ctaacaatcg agaatgtgtc ctcctaccaa taaatcaata actctat 347

<210> 43553
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-E11

<400> 43553
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tctacaaacc gggtaactga gaagagcgca agatgttcga tttacagcac cacggtcaca 120
cacagacaga acccgctggc tcaactgaatg gtgcaccagc ccaccttgaa gatcttctgc 180
aaggcctacg aggagtactg gcttacctgt cgcaacggca acgtagggct accccctggc 240
aaccgcgcg actagcacca tcaactagtag tagtacatgc gcttcaacac ccatgtcaag 300
gactaggagg ccaaccctgc gtttaccctg aactacaaag ccactgggct cgcca 355

<210> 43554
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-E12

<400> 43554
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agggtatatg cgttcaggac cccacgctac tgtttgtatt caacgaagcg tgtgacatct 120
gaatcttcaa ccaatcgaca gtgttcacag cctagacact tgtaccatgc caagagctaa 180
gtcaacaaca cactgatcag atatcaacga agatgatcgc cactctgtcg gaacttttgc 240
atctagctcc actaattttc cagctgcctt cgctgaacac acctatacaa atgcttctac 300

tcacactgtg cgagtgttat attctgcatg gattctgacg tgagcagcag gcattctgaa 360
cccgtatct caatctgaag attcggtaga tcctgaac 398

<210> 43555
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-E2

<400> 43555

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gcactggagc tggagggaag gcgaagaagg gagcgcccg tgcgaaggcc ggcgggccga 120
ggaagaagtc ggtgacgagg tccgtgaagg ccgggctcca gttccccgtc ggccgcatcg 180
ggcgctacct caagaagggc cgctacgcgc agcgcgtcgg cagcgggtgcc cccgtctacc 240
tcgcggccgt cctggagtac ctgcgcgtg aggtcctgga gctgcgcggc aacgctgcc 300
aggacaacaa gaagacgcgc atcgccccgc gccacgtgct gctggcgatc cgcaacgacg 360
aggagctcgg gaagctgctg accggcgtga ccategccca cggcggcggtg ttgcccaca 420
tcaaccgggt cctgctgccc aagaagacgg 450

<210> 43556
<211> 65
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-E3

<400> 43556

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ggcac 65

<210> 43557
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-E6

<400> 43557

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 tgggtacttta ttgaaggcta acaacgtatc cgccggtcgc aaggccggcc gtcccatgaa 120
 gaaatctgtg acgaggtccg tcaaggccgg gctccagttt cccgtctgcc gcatcgggcg 180
 ctacctcaaa aatggccgct actctcagcg cgtctgcagc ttgcccccg tctacctcgc 240
 ggtcgtcctg taatacc 257

<210> 43558
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-E7

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 ttctacgtct tctcatgaac gcatcgcccc tctccacctg ctgatacttc gccatctctc 120
 catctctctt tctctctgag atagtctttc gaatccatct ctagggtctt tgtttctccc 180
 catectcccc ccaccctacc ctccaccata cacaagtccc cttgttcaat cctacaagac 240
 aagcatccat gtcacgtca cgcccgagct cgagccccga cagcaactac acgactgacg 300
 agcgcaagcg gaagcggatg ctgtccaac 329

<210> 43559
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-F1

<400> 43559
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 ccgcatcggc aagcaccgga agcatcccgg aggtcgcggt aacgccggtg gcatgcacca 180
 ccaccgcatc ctcttcgaca agtaccatcc cggctacttc ggtaaggctc gcatgcgcta 240
 cttccacaag ctccgcaaca agttctactg ccccgcggtc aacatcgagc gcctctggtc 300
 gatggtgccc gccgacaagg cggcggaagc cggcggcgac aaggccccgc agatcgacgt 360

cacgcagttc ggctacttca aggtgctcgg gaaggggggtg ctgccgccca agcccatcgt 420
cgtc 424

<210> 43560
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-F10

<400> 43560

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gcttctctgg cgctttacca aaccttaacc ggatcgggtc ccatgccgag cttaaacgaa 120
tgactggact gactacaact ccataatcaa ttgcacttga acggtogeta ctagtactcc 180
agctaagcca ctgcttctct gtaacctct aacctccatc cctattatac ttccacaatc 240
tactaccgaa ccctataact gtataccagg atactaatgg cctctaccag atcgtgcgac 300
tacagcatac ac 312

<210> 43561
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-F12

<400> 43561

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gtgactcaac atcacactta gcatagtatg actgagactc acagaagagg gatactagcc 180
gaogcactgg atgttcgcaa tactgtgatt accattgctc ttatactteg caatcctaca 240
cgtgatgtct ctaactgtcc tgtacgagac accacacatg catgtgatcc tgctactagc 300
ggacacactt caacatcctg tgacctacga ggtaccctac gactatgccc tatgtcatct 360
atcggggccaa tgcaaggaag actcggatgc acat 394

<210> 43562
<211> 359
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-F2

<400> 43562

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cttcactatc tcaagcacca taaccattcc acaaccttca cttacccac cttcttacac 180

taacacacca tcactcttca acccctacca tcccttcttc ttcagaaacc acaacttcca 240

ctactttcac aatctccaaa acattttcta ctcccacaat ctcaacatcc agcctcatcc 300

ctcaatcctt cccacogaca ctacttttta atccttcaac tacaagacc cacatatct 359

<210> 43563

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-F3

<400> 43563

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gattcacaca catacttaca ctgtatggga cttgtataat acttaagacc aactcaaaa 120

tattggtgct aaatatgtac gccaaactac ttataaaaca aacgactttg cttataatag 180

gacaacc 187

<210> 43564

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-F4

<400> 43564

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gaactgtcta ctgtccatgg ggcacaaca gtccaacgag aacatgatcc agctgatcgc 120

caccaatgca tgcatagaact cgctgacatc caatgctgta ttgttcgtgt gcaccgctag 180

cctcaagccc agctaggcca actacttcct cgacgactcg ccctaagtag taaggcta 240

acaaagtctc tcctacgtct actatgagct cgcgcttgcg aaccatccac attaagacaa 300
 ggactcctct ttgcactact tgtgacaata ggaaagagcg ttgccttccc a 351

<210> 43565
 <211> 215
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-F6

<400> 43565

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 aaccacccca acaccaatgg gcacatgcta cttttaaagg accccatccc acacaataaa 120
 aacaacaaaa cactacatac accaaatata cactaacaca aaaccaccca accacacaac 180
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<210> 43566
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-F7

<400> 43566

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 attgagaaaa cagccaaagc actagtcagt gaactccaaa agatgtccaa ggaggttgag 300
 gacagtgagc ttgctgatgt tgctgcagtt agtgccggaa ataactatga aattgggaat 360
 atgatagctg aggctatgaa aaaggttggg cggcaggag tggtcacact tgaagaagga 420
 aagagtgctg aaaataacc 439

<210> 43567
 <211> 284
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-F8

<400> 43567

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caaaagactt gaatcagtat tggacgctca tatgcaaagt gcttgaccat tacactatta 180
ctctcagagg ctaatacttg acttcctcac tccaacatac ttatctatca attcatgcat 240
gctgaaaaca tccataacaa ccttcatata acttcatact atat 284

<210> 43568

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-F9

<400> 43568

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ccggttaccg ttgggattcc tgagggtctc cggggttccg ctctcgtcgt gagcggatcg 120
agatggcggc ctcggatgtt gactaccgct gatttttcag accgtctcgc ctggggccaca 180
gacgaccact ctctccacaa cgccttgagc acctacggtg aggtcctcca gtccaagatc 240
atactcgatc ggcgagacgc agaggctccg ctgcttcagc tacgtcacct tctacacgga 300
cgacgctatg ctgaacgctc atcgacggca t 331

<210> 43569

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-G1

<400> 43569

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ccccggtcga tccaggcagt ggcagcggct ctggcgggtcc tgggtgctgga gggggccggc 120
acatgcatca cggccgcagt gctcaacacg gaccgtctcg cgctgctggc gctcaagttc 180
ggcgtctaag acgacccggg cagcgcgctg tacacgtgac gtaacgcgga cgccgacccc 240

tgcgctggt gtcagcgtca catg

264

<210> 43570
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-E10

<400> 43570

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gccctactgc ctactactcc ttgtctcat cctcactcgg atcatcatac tcgagccac 180
tccaacaatc ctacaccatg ctatccacca tcagcattac ccaccacctc tgaatctcat 240
ctcctt 246

<210> 43571
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-G10

<400> 43571

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cggcctggcc aattcgacgg acaggggctc cgcattact gctgctgcta gagaggcacc 180
cggctaccag tccgcctcgc cgcttaactc cgacaactgc tgatgccttg gcagctagct 240
ggcgtccca agtagtagag aacacggcca atgtatccat agatctgctt gtagcggagc 300
ttaatgctg attttccctt tgctaatatg cattggatga gcccgtagcg caccgtagtc 360
gtatctaaag ctggcgcttct gattcggttg gacc 394

<210> 43572
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-G11

<400> 43572

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tggaggaagg aggagggcaa catgaggagg ttacaggtag cccaatagat ctactgctgt 180

tgagggagtt gatgcaaagc tgagttgctg cgcgttggtt ttcttttagag atggcttcag 240

ctgggtgttc cccttctggg tacaagaaca gcagcagcac cagcattggt gccgaaaagt 300

tgcaagatca catgaacgag ctaaagatta gagatgataa ggaagttgaa gcaaccataa 360

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<210> 43573

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C3

<400> 43573

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ttcagtgttc gagatcgacc aacacctaat ccttctggtt atcctacaca atcttttgac 180

tctagtatgc ctagtgcttt cacaggcctt cagggtcaaa ctcaatacat gcttgcaggc 240

gctggcagtt catcagcgaa tgagttaccc aatgtggagg ccaagcttct atggaacaca 300

tttccagcaa ataggatccc tctggagacc ttcagctcag gtttacctgc tcggccgatg 360

ccaccctta caccttattc agctgttgct actcagcacg ctacgatgaa c 411

<210> 43574

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C4

<400> 43574

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acaataccgt atccgactac attcacacat cattcaaacc aacacttaac ctactaaca 120

cctacctttg ttcataacac tagatcaacc tacacataat cctatactat aacctacata 180
 tcctttcaca tatattatcc actatcctac aacattcact atacaatcaa acttaataca 240
 tactgctcac caccttccat ttcacatcaacg aataattatc acaatatgca actcaagctt 300
 acatgtcaca cattatcaac taataatata cctctctaaa cctttatttc tacattacca 360
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<210> 43575
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C5

<400> 43575

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 ccaacaccta atccttctgg ttatcctaca caatcttttg actctagtat gcctagtgtt 180
 ttcacaggcc ttcagggtca aactcaatac atgcttacag gcgctggcag ttcacagcgc 240
 aatgacttac ccaatgtgga ggccaagctt ctatggaaca cattttcagc acataggatc 300
 cctttggaga accttaactt aagtttacct gctcggtcga tgccacccct tacacctt 358

<210> 43576
 <211> 464
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C6

<400> 43576

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 cgaaggcacg gccactgcaa gggctgtgga agactttgaa cccttaactg ttatcagaac 180
 tacctgtcca tgtggcaatt gggttaatga aatgacaagt tttctttgtc aagcaaagct 240
 gtatggtttg gttcctgcta tcccttgacac agatcgattc tcatagtgtt atgtcattgt 300
 tgattaagag ccatgaactg aagtgtacta cgcctttggc catactgtga gtcttgacca 360

tgaaccggtg tcagcaggaa gcatgctagt gctgaattgc attatgcgaa tgggtgccca 420
aaacaaccct aaaaatttgt ttaatttcac cggtatctga tact 464

<210> 43577
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C7

<400> 43577

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cctccgattt catccgtgtg catgcaaaat actgattcag ttaataggca gtcattcttcg 120
ttcagtgttc gagatcgacc aacacctaat ccttctgggtt atcctacaca atcttttgac 180
tctagtatgc ctagtgtttt cacaggcctt cagggtcaaa ctcaatacat gcttgcaggc 240
gctggcagtt catcagcgaa tgagttaccc aatgtggagg ccaagcttct atggaacaca 300
tttccagcaa ataggatccc tctggagacc ttcagctcag gtttacctgc tcggccgatg 360
ccaccctta caccttattc agctgttgct actcagcacg ctacgatgaa ctctggcttt 420
cctgcaaacc tgtata 436

<210> 43578
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C8

<400> 43578

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agaggctgac acatttgagg aaccaagatg tgaaaggcga agaacctacc tctgttgata 120
agaattgtgc agcattgaga agcttgcata ctgggtgaa ggtgtcaata cacacagttc 180
agtcagtatc aaggaggatt gaaattctaa gggatgagga gctgcaccc cagcttatgg 240
agttgattca agggctatcg cggatgtggc gcgccatggc tgaacgccac aaagctcaga 300
agcgcacat cgaggacgct aaacttctct tctccagca ccaccctcg gccgccacgg 360
ctatctccct tgggtccgtg gagggcgcaa ctccccctcc ggctgccttg gcaactggaat 420

ccgagatcca ggcctggcga gg

442

<210> 43579

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C9

<400> 43579

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ggaaaaacgt acaggatggc cgagagggtga agttgttggc aagtttctta ttggagaggc 120

gtttggaaat tgttgtcgac tcaagggccc agatgcattg acaaaattca tgggtattat 180

tcacaacgct ataggaggac aggattatga gaagttccct ttttcatttt ttgacaagaa 240

tggaaagtat gtgcaggcct tattgaccgc caatacaagg agcaaaatgg atggtaaatac 300

cattggagcc ttttgtttcc tgcagattgc aagcactgaa atacagcaag cctttgagat 360

tcagagacta caagaaaaga agtg 384

<210> 43580

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-D1

<400> 43580

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tattggatat gacgaaaaga ccatgtacat ggctgcatat gattggaggc tatctttcca 120

gaacactgac gttcgtgatc aaactttgag cagaataaag agcaatattg aactcatggc 180

agcaacaaat ggtggaaata ggggtgggtg gatccacac tccatggggg tctctatatt 240

tctgcatttt atgaaatggg tcgaagcacc tctcccatg gtgggcggcg gtggtccgaa 300

ctggtgtgag aagcatatta aagctgcaat gaatattgga ggacctttct taggagttcc 360

caatgctgat gctgggcttt tctcatctga agc 393

<210> 43581

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-018-Q1-K1-D12

<400> 43581

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ttacaaatgg aacaaaaaac aaagatgcgt gctttggctg ttttttattt tccgattcgg 120
gataagctcc cccctttttt ttcctggctg cattttgctg cacactgggtg gaacctcccg 180
atctcactct ctgcctgtaa agagtctcgg ggaaccgggtg gatctttccg tcactctggcc 240
agtggccgctc tgatttggtc gtgatctccc cgaccccggtg tttgggctgg gacaaggaga 300
aaccgccaaa ggagagattt gttttccgcg gacactcgga aacacaagtg taatcccccc 360
taccgttctc tctgctcaag tgtcgccatt aatggccagg cctctnccat aaagcaccat 420
caattcctca tgcaaaaa 438

<210> 43582

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-D3

<400> 43582

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acaagcaaag acacccaact cgtacatctt tcaacaattt gaaaatccag ctaacccaaa 120
gattcactat gagactactg ggctgaaat ctggaaagct acagcaggaa aaattgctgg 180
ccttgatctt ggtatcgga caggaggtag catcaccggt actgggcat acctcagaga 240
gcaaaatcct aatgtcaagc tctatggtgt ggagccagtg gagagtgtctg ttttgaatgg 300
tggaacacct ggaccacaca agattcaagg aattggagct ggttttatcc ctggagtctt 360
ggatgttgat ctccctgatg agactctaca gttttcaagt gatgaagcta ttgag 415

<210> 43583

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-D4

<400> 43583

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ggcaaggggg gagacccaac tggatcatcc ttcaacattc tgaatatcca tgtaacccaa 120

atattcacta tcagactact cgacctcaaa tcttgaacgc tacaatcacg aaaaaatgct 180

gactcttcta tcattctataa cgtacagaga cgtaccatca ccttgtactc ggcgatacct 240

cagatagcta aatcctaata tcaagctcta ttgtatggac ccagtataga gcgctcttta 300

caatgggtcca taacctcaac catacaccat tcaactgaata gcaactcgtt ttatcccttg 360

agacttggac ttgagatctc ctt 383

<210> 43584

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-D5

<400> 43584

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ggggcaagga gagacacca actcgtacat cttcaacaa ttgaaaatc cagctaaccc 120

aaagattcac tatgagacta ctgggcctga aatctggaaa gctacagcag gaaaaattgc 180

tggccttgta tctggtatcg ggacaggagg taccatcacc ggtactgggc gatacctcag 240

agagcaaaat cctaattgtca agctctatgg tgtggagcca gtggagagtg ctgttttgaa 300

tgggtggaaaa cctggaccac acaagattca aggaattgga gctggtttta tccttgaggt 360

cttggtatgtt gatctccttg atgagactct acaggtttca agtgatgaag ctattgagac 420

tgccaaggct ttgctctga 440

<210> 43585

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-D6

<400> 43585

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agcgggtattg cgagctcaca ccacctgcgg cgcggcgatc ccggggccacc ggctatcggg 120
ctatgtgatg atccggggccg tgatctcgac agctattcgc ggctgaacgg gcggcgggcga 180
tgaacggagc gagcgccggg gccggcgggg aggcgcgcgt ggtgtacaag gcctggaagg 240
ggaacaatgt gtttctactg aaggggaggt tcatatttgg ccttgatgca aggtccctgt 300
ttatcaccat gttccttatt gtgcgcgcgg tatcaatctt ctgcgcgttc gtcgcataag 360
aattgatgga taagttctct tatggctctg gattgccggg tatgattgca gcagttctat 420
tcacagcata tgatctgagt c 441

<210> 43586
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-D7

<400> 43586
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ggggcaaggg aagacaccca actggtacat ccttcaacaa tttgaaaatc cagctaaccc 120
aaagattcac tatgagacta ctgggcctga aatctggaaa gctacagcag gaaaaattgc 180
tggccttgta tctggtatcg ggacaggagg taccatcacc ggtactgggc gatacctcag 240
agagcaaaat cctaattgtca agctctatgg tgtggagcca gtggagagtg ctgttttgaa 300
tggtggaaaa cctggaccac acaagattca aggaattgga actggtttta tcctggagt 360
cttggatggt gatctccttg atgagactct acaggtttca agtgatg 407

<210> 43587
<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-E1

<400> 43587
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gacctgtgaa attctcccgt actactttcc tagccaaaca ctctcgctcc ataagacgac 120
ggatacaatg ataaacacta tccatgacct tcggacctat catcacgtca tcgctggcca 180

gttgccctccc aacactgacc tgcaccgatt cc

212

<210> 43588
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C2

<400> 43588

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atggaggcag agcacttcgt gaggattgcg gacactgagc cgacgaaggc acggccactg 120
caagggctgt ggaagacttt gaacccttaa ctgttatcag aactacctgt ccatgtggca 180
attgggttaa tgaaatgaca agttttcttt gtcaagcaaa gctgtatggg ttgggttcctg 240
ctatcccttg cacagatcga ttctcatagt gttatgtcat tgttgattaa gagccatgaa 300
ctgaagtgta ctacgccttt ggccatactg tgagtcttga ccatgaaccg gtgtcagcag 360
gaagcatgct agtgctgaat tgcattatgc gaatgggtgc ccaaaacaac cctaaagatt 420
tgtttaattt catcgatct tgatac 446

<210> 43589
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-A3

<400> 43589

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ttcgtaggcg ctcgatgatg taccctaacc agggatcatc gatgagtcta tgggtgccga 120
atcataatct tcgatatggg acgttaattg atcgcacgat gtggatgaaa cgtgttggtg 180
taatctcaaa gtgatgctca cacatgaacc agaggaatgg atgatctgat cacgtgccag 240
catggaacat gtcacaatg ccgtcattat ctaaccacac taacatagtg ttatctcggg 300
caagccccag tg 312

<210> 43590
<211> 445

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-A4

<400> 43590

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 ttgagatccg ccgcatcgac aacaaggaga gccgtcaagt caccagtgcc aagcgcaagg 120
 gcgggctcct aaagaaggcc tcggagctcc atctcctctg tgggtgccc aa gtcgcatca 180
 tcgtcttcaa gagaaggac ccgaaagaa aggaggtgcc cgttccgccc cgcgccaac 240
 gcgacgacgg cggccttgcc ttcgcgatgg gcaccctctc cgtcgaccac gtgctccacc 300
 gctgtggcct gctccacgcc gacgagggcc tcaccgcgat ccaggatgtg ggcgccatcg 360
 tcgcatagcg tgccgctatg gacgcgagag cggggcagac cgagcagacc atggcgctcg 420
 tggaggcgga gaatgcgctg aatga 445

<210> 43591
 <211> 146
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-A5

<400> 43591

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 ttattgcgaa tttcaaaatt tacctcaacc agagatcatc catgagccta tgggacccga 120
 atcaaaatct tactcatgga tcatta 146

<210> 43592
 <211> 174
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-A9

<400> 43592

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 tagtgagggg actgatcgac gacaatgata gtcttcaaat gacccatgtc aatcgcaggg 120
 actcatctcc tatatcaagg actgaattct tcatatgctg tctagtatcc aagt 174

[illegible]

<400> 43593

<210>	43594
<211>	396
<212>	DNA
<213>	Zea mays

<400> 43594

<210>	43595
<211>	338
<212>	DNA
<213>	Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-B12

<400> 43595

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gagccaccac ccttacatgg acattctaata cgctatgtcg atgatgccgt cgatagatgc 120
ctgcgctgca ttctgactac cctgcacaac agtcaacgta gaattacact tgcttctcat 180
gctcatcaaa gagctccatg aactgaatga cgcccttgtc tgaaaagcct ttgtgcttaa 240
gggctacaac gaacagacag atgcacctat tatcaacgat caccgattct caccgaaatc 300
tctgaccaca agtaccatc attttttatg atctatct 338

<210> 43596

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-018-Q1-K1-B2

<400> 43596

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accgctgctt cgtcggcggc ctgcctggg ccacggacga ccatccctc cacaacgcct 180
tcagcaccta cggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcagaggt 240
cccgggctt cggcttcgtc accttctcca cggaggaggc gatgcggaac gccatcgagg 300
gcatgaacgg caaggagctg gacggccgca acatcaccgt caacgaggcc cagtcccgcg 360
gcggccgtgg aagcagccgc ggcagcgggt acggtggtgg ccgtggaggc tgcggctacg 420
gcngtggcgg gcgccgtgat ggcggc 446

<210> 43597

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-B3

<400> 43597

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agggtaggag gattggtaga gttgttcgtg caattgctat catgagccac ccaatcccta 120
atacaaatga gtcccactcg gttcaaatta ttttgctca gaaacaactt ggacgtagat 180
cagacatgta tgttttctgt tgttcataca cgcacaatgt tgcgccaaga gggaagttca 240
ttgcatttgt gtctgcagaa gcagagactg ataaccgcga atctgagcta aagcctggaa 300
ttgatctact tggttctgtg gatgagatat tatatgatat ttatgacaga tatgaaccag 360
tgaatgaacc atctcttgat aattgctttg tcacaacgag ctatgacgcc accacacatt 420
ttgagacaac t 431

<210> 43598
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-B5

<400> 43598

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tcgtgctctt caaggcccg tccggaggcgg aggcctcggg cgccgcggcg gcgatggctc 180
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gctacgccac caaggaggac ctggcgcttct acgcggcgca cccggcgcac gtggccgacg 360
tgcaagggca cgtgcttccc aacgcgctcg acatcaccgc cgtcgactgg gtcaacgccg 420
tgcc 424

<210> 43599
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-B6

<400> 43599

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cgaggagctgg ctttccagat gtcccagatc ctatacaccg gcctcgaccg ccacaccctg 120
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 cgcgagctct cctatgctgc tcccccaacc tccgtcgagg cttoctaccc cgtgagcaac 240
 ggcgctccgg ggccggcctc ggcaattgag cccacgttct cctccggcct tcgccgtccc 300
 taagggtgctg ctaaaaagtc tgaatggaac cggagtagtt cttcaagcca gacaagatct 360
 cgctgctgga atcgctggat gaaaaggatt gcctttacaa ttocatgtgc gcgctgctgt 420
 tgtggtgtgg tccgaccaca aaacatgt 448

<210> 43600
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-B7

<400> 43600

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 aatccctaata acaaatgagt cctactcact tcaaattatt ttgcctcaga aacaacttgc 180
 acgtacatca cacatgtatt gcacctgtag ttcatacacg cacaatgttg cgccaagaag 240
 gaagttcatt gcatttgtgt ctgcagaagc agagactgat aaccgcgaat ctgagctaaa 300
 gcctggaatt gatctacttg gttctgtgca tgagatatta tatgatattt atgacacata 360
 tgaaccattg aatgaaccat ctcttgataa attgcttgtc acaactagct attacgccac 420
 cacacatttt gagacaactg gaaca 445

<210> 43601
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-B9

<400> 43601

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 aactttccca ttacagatcg cttgatcaca acttatcatt caattactcc aattcacatg 120

actgttctact gaccgctcac gcaaccactc cagacgtgcg ccctgttcac attcatacat 180
cattcctagc cgcaccactg ctccaaacac atattgtacg gtcacgctg cattcactga 240
tcatgcactt gtcatactaa tttccaagat ctaccaccat gattcatctc ctgacctcac 300
tctcatgaaa taagaatagg ccatactaca aataataata aacctattaa agcatcttcc 360
ttacggctca atccagggtg tcatatccta cttatcatga a 401

<210> 43602
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C1

<400> 43602

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cctgcgcctg ctgacgctca gtgtgcccga gtcgttggtg gatttcagcg acaagccctt 180
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tatgcattaa cagaacaatg cccccccagt acctagtcca ctgtagagca gtatacgaca 300
gatacgccca gtacccttag tcattcgtgg gcattggtaa tatcaccaca cgctcccgga 360
gtcctgctgt gatcccgccc gctggcccga cttcttccct ggggtgcaggt gattcatgaa 420
tat 423

<210> 43603
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C10

<400> 43603

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gggatacaat tgggaacttg ctgacataca tgacctagcg agggaggag caactgaaga 120
tatagtgaag tatctggcag cgggtgtaga attcaacacg aaagattctg aaagcagtac 180
tgcggtgcac tgggctggcg acccttgcca tcttagagct agctaggctc ttacaaaagc 240

gaacgctgac cttaatgcca acgacaaata caggaaaa

278

<210> 43604
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C11

<400> 43604

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attatccgac acatgtatac atatttgaca catactcacc gactcaaata ccttgacaca 180
tctcatgatt actattcaca tctctataac actacaggat cataagataa tccctttttc 240
attttt 246

<210> 43605
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-C12

<400> 43605

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atcgctctta cttgcgggat ccattagggg atagtcgcta cgagatgcca ccttcaaaag 120
tcgtggatgc tccaaaattg gatgcgcaat ctctttctgt atcgcttttg agagccgcac 180
cgctctcgaa tcaagaaagg cttgtgctaa tgaagctagc ccttcaaata aagaacagac 240
ctgactttcc ataggaggga acaatgccat caccggagtt gcaaaaacca taaaacgca 300
cttcaagaat caccctcttg ctatcgtgaa catcaagaac agagcggacg ggactccgat 360
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<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-A2

<400> 43606

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atcaaaat ttcgttatggt acgttaattg atcgcacgat gtggaggaaa agtggttgat 180

taatctcaaa gtgatgctga caaataaacc agaggaatgg atgatctgat caagtgccag 240

gatggaagat gtcaccaag tggatcatcat ctaaccacac taacctagtg ttatctcggg 300

caagccccag tgcatttgcc acctccttgc tgttttaaaa acttttatca cttatatgct 360

gcattagggtg atacgagttg tgtgaattaa cagttgatgc attaccattc tttggaattt 420

gattactatt ccttgattca tg 442

<210> 43607

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-E12

<400> 43607

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aatgactgtt acatgtcact ttaaacaagt atagacatcc tcatatatat taacaagaca 120

tatattatca ctaataaaaa atcacctatc ttctatcata taatacaacc ttataaggat 180

accat 185

<210> 43608

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-E3

<400> 43608

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gaccgccgaa atggccccga agcgaggtgg cagggcaccg gtgccggcca agaagatgac 120

ggataaagtg acgaaccctt tgttcgagaa aaggccgaag cagttcggca tcggcggcgc 180

gttgctctcc aagaaggacc tgcaccgatt cgtc 214

<210> 43609
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-E9

<400> 43609

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cgaattgcag cagctaattt gggacagctc acgccgaaat taaaaccttg tccaagcaat 180
aatcagtgtc tctagacgta gaagcgatat aatcattgtg ttcgttcacg gatctgtcat 240
gaaaacgacg cacgtacgta ctctacgac gtgcttcaaa gattcctggg ttaataacca 300
cagctgtagc cgagaaccga aagcgatggc cgcacgtacg tttccagagg gtatgttggt 360
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<210> 43610
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-F10

<400> 43610

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agcaatgggc agcggacaag aaggagaagg cgctcgcgga caggaagaag gcgctcgaga 180
gccgcaagat catcttcgcc cgcgccaagc agtacgccga ggagtaccac gcccaggaga 240
aggagcttgt gcagctcaag cgtgaggccc ggttgaaggg tgggttctat gtgagcccag 300
aggccaagct tctggttgtg gttcgcatcc gtggtatcaa tgccatgcac cccaagacct 360
gcaagatctt gcagctcctg cgattgaggc agatcttcaa cgggtgtcttc ctgaggttaa 420
caagggaac cccccattaa catgcttgcg caggtg 456

<210> 43611
<211> 415
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-017-Q1-K1-F11

<400> 43611

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tcgtcgccgc cgtgtgcgcg ctggcgccgc cggctgccgc ggtcgtcact gacggtcttc 180

tcccgaacgg caacttcgag gatggccgc ccaagtcggc gctggtgaac ggcacggtgg 240

tgtcgggggc ccacgccatc ccgcggtggg agacgtccgg ctctgtggag tacatcgagt 300

cggggcacaa gcagggggac atgctgctgg tggcgccgca nggcgcgcac gcggtgcggc 360

tgggcaacga agcgtcgatc ccgcaagcgc tggccgtggc gcgcggcgcc tacta 415

<210> 43612

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-F12

<400> 43612

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gtcttgatcc tgccaaatca ctgacacaac attatgggtgc tgtccaaggg atatctgcac 120

tggggcccgag cgcgattaga ctctcctttt tgcccaacct tgtgacatat atgcaacttc 180

tggagccgga actgcagctt gagaagcaga aaaacgagat gaaaaggaag gaagcttggc 240

gtgttttatgg tgccttgctg tgtgctgcag gcaaatgctt gtatgatcgg ttgaaactat 300

ttcctgggttt gctttctccg tcgatgcggc ctcttttaca gagcaacaaa agggctctta 360

ccaacaaccc aaataagcga aaatctagca cagatc 396

<210> 43613

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-F7

<400> 43613

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<210> 43614
<211> 303
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-017-Q1-K1-G10

<400> 43614

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tgggggccag cgcgattaga ctctctcttt tgcccaacct tgagacatat atgcaacttc 180
tgagagcctga actgcagctt gagaagcaga aaaacgagat gaaaaggaag gaagcttggc 240
gtgattatgg tgcccttgctg tgtgctgcag gcaaattgctt gtatgatcgg ttgaaactat 300
ttt 303

<210> 43615
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-G11

<400> 43615

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gtgcccgcgc tgatctcatg gatcttgagc ctgggacaat ggacagtgtc cggaccggac 120
cctatgggca gatcttacga cctgacaact atgagtttgg gcaatctggt gctggtaaca 180
atcgggctaa tggccactac accgaggggtg ctgagctcat tgactatgct ctggatgatg 240
tgaggcaaga agctgacaac tgtgactgct tgcaagg 277

<210> 43616
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-G12

<400> 43616

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cagcattcca cacttcgtta ccagtgcctg tccatgtett caggaggctg aggcacactt 120

ttccccgattc atacagattt ggattcaggc ggagaccacc agaatgatag tgaacagaag 180

gtggttcatg ggggtaatca ggaggaaaga aaatatcgaa gaaaaaaga ttgtcatggt 240

aagggtgttc aggtgcccc aagatgcaag cctcagaag atccatcctt tctcataaa 300

ctctcacatg aataccatct ggtaggtcat tttgcaggat gttccattcc agtcgcacct 360

tcttcagcca acctcttgta acactttcat ggccattttc cttcacaaaa tgatgat 417

<210> 43617

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-G3 .

<400> 43617

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gtgagcggta ttgatggcgc ccaaggcgga gaataagccg gcggcgaaga aggtggcgga 120

ggaagagccc tcggagaagg cggctccggc ggagaatgcc cccgcgggga agaagcccaa 180

ggcgggtgaag cggctacctg cgggcaagt 209

<210> 43618

<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-G5

<400> 43618

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ggcgatgaga gatcgatcgg tcgagcgca attccccagc cgcgagcggg gggatcggcc 120

gtcgtccggt gtgcttgggc ccccgcg 148

<210> 43619

<211> 112

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-G7

<400> 43619

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gggtctacaa tattgaatga gagtagccta atattgatac ataggatatg gc 112

<210> 43620

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-017-Q1-K1-G9

<400> 43620

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ccgagtcctg ctttgatggc gaccgacgtg actgagactc ccgcgccgtt ggtggatgcg 180

gccccagagg cgcccgcga cgcggcgcg gcgcctgctg ccgacgcgaa gccggccaag 240

gccaaagaagg ccaccgcgcc gaagaagcgc gccagccga cccaccgcc gtacgccgag 300

atggtctcgg aagcgatcac gtcgctcaag gagaggacgg ngtcacgag ctacgcgatt 360

gcccagttcg tggaggacaa g 381

<210> 43621

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-H10

<400> 43621

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gcgatctttt gttcgatcta gctccaccga cgtgcgacga agaagataga atgaaactac 120

aacagctgca atacatttga gctgcagagc tagcttagtg cctgtttggg atcctggtct 180

ttcactgcct ggtgtggtag atgaacggtg gtgagcactc ccttaagcct agtgtttggg 240

aggaaagggg ggctatacct agagaggga aacccacag ataactaat atcttattta 300

aatgtctttt taagccttgt tc

322

<210> 43622

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-H11

<400> 43622

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gggaaggtgt acaaactctgg aacctacggg aggtcgcttg atatcactag gtttagcagc 120

tatcacgagc tccgtagggg actggggcgc ctatttgccc ttgagggcca gttggaagac 180

ccattgagat caggctggca gcttgtattc gtcgaccgtg aggaggacgt ccttctcgtg 240

ggcgacgacc cttggcatga attcgtgagc actgtgtcct gcataaagat cctctccccg 300

caggaagtgc agcagatggg gaagcagggc ctggagctcc tgaactcggc ccccgacagg 360

aggctcagta gcagctgtga cgactacgtt agcaagc 397

<210> 43623

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-H12

<400> 43623

caatgctaac tgcaccttaa actgttttgc tccccttgct aaagacaggc acaacgtcca 60

tttcataatg gatccctcga tcacaactgt tcatgccatc actgccaccc aaaagactgt 120

tgatagaccc tcaaccaaag actggacaag tggcacctct gtcagcttta acatcatacc 180

cagcatcacc cttactgcca acgctttcat taaagatctt cctcaaata ga atgccaaact 240

cactggcatg ttcttccgga atcccacccc agatgtatca actgtatacc tcaactgccag 300

aatctagaaa ctgtccttct a 321

<210> 43624

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-H9

<400> 43624

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gatccaggta cttatagatg gatggcacca gagatgtaca agcacaagcc ctatggccgg 120
aaagttgatg tgtatagctt tgggcttata ttgtgggaat tggtcaccgg ttcactccct 180
tatgaagata tgactccgct tcaggcagct ttcgccgttg ttaataagaa cttgaggccg 240
gtcattccat tgagctgccc agcggcgctg aagcttctga ttgagcagtg ttggctcctg 300
caaccagaaa a 311

<210> 43625

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-018-Q1-K1-A1

<400> 43625

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ttcttaggtg ttcatgata taccccaacc agggatcatc gctgtgtcta tgggtgccga 120
atcaaaattt tcgttatggg acgttaattg atcgcacgat gtggaggaaa agtggttgat 180
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gatggaagat gtcaccaag tggatcatcat ctaaccacac taacctagtg ttatctcggg 300
caagccccag tgcatttgcc acctccttgc tgttttaaaa acttttatca cttatatgct 360
gcattaggtg atacgagttg tgtgaattaa cagttgatgc attaccattc tttggaattt 420
gattactatt ccttgattca tgtttat 447

<210> 43626

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-E11

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gcgctcgtgc aggagccggc catcaccatg aagtaccaca agggcgcgct cctgtcgggc 240
cccatcgccg tcaacttcat ctggtaaggc gacttcacgg cgccacagcg ggcggtgatc 300
accgacttcg tctcgtcgtg gtccgcggcc ccgcggggcg cggcgagtc gcagccggag 360
ccg 363

<210> 43627
<211> 363
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-018-Q1-K1-A10

<400> 43627

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gtcctccaac ttctgctcca agcccgctga cgtctcccgc ttccggcgta tctacgccgg 180
cgcacagaag aacgtcgggc cctccggcgt caccatcgcc atcgtgcgca aggacctcat 240
cggcgccgct cagcccatca cggccgctat gctcgacttc aagacgcacg ccgacaacgc 300
ctnccctttac aacaccccga cctgcttcgc catctacgtt tgcgggtctg tcttcaaaga 360
cct 363

<210> 43628
<211> 477
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-017-Q1-K1-B10

<400> 43628

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gccccagaaa atgcgctcgg tggtagctac ggtgttctga accagaagag aggtcatgtc 180

tttgaggaga tgcagaggcc gggcaccocg ctctacaaca tcaaggctta cctccctgtc 240
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caggctgtct ttgaccattg ggacatgatg ggctctgato ctttggaggc tggctcccag 360
gctgctcagc tgggtgctgga tatccgcaag aggaagggtc tcaaggaaca gatgatccca 420
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<210> 43629
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-B11

<400> 43629
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tcggcgacgt tcacgtgac caacaactgc gggtagacgg tgtggccggg gctgctgtcg 180
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gacgccgtca ccggcaggtt cgtctgcgcc acgggcgact 340

<210> 43630
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-B12

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ggagctatga ttgggtacac tccaagagga atgcaacttg ctcaagaaac tatagagaag 180
atgacttcaa gaaatttttt cttgaatgcc aagatgggaa ctgatctcct acttgcagct 240
gccggtgaaa cggctggtgg atatacgact gcaaattatg tctgggatct cctgcaaagc 300
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gagattcctt ctgacgatcc acgacttctc aatgttaccc atgttttgga caacctgaaa 420
cctcccgaaat tttttggacc aaagagaaac a 451

<210> 43631
<211> 193
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-B2

<400> 43631

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aagcatgtga ttattgatgg tgagcctaag atagagacca aattttcaag ccggatccac 180
ttgagaatat gtc 193

<210> 43632
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-B3

<400> 43632

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caataacccc aaatacagat ttgttgtgcg atttaccaac aaggacatca cagcaciaat 180
catctctgct agtatagcag gtgatatggt tcttgcttct gcttactcgc atgagttgcc 240
acgatatggt cttgaagttg gtctgaccaa ctatgcagct gcttactgca ctggccttct 300
gttggtcgcg cgtgtgctca agaccctggg tttagataag gaatatgagg gcaatgttga 360
ggccactggt gaggatttct ctgttgagcc agctgatgag aggaggcctt tccgtgctct 420
cttgatggtt ggccttatt 439

<210> 43633
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-B7

<400> 43633

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tcaattaagg tgagctagat taaactgaag catttggtat gaataaattt gcatctgctt 180
gtgatgagtt atgctctggt ttcttcattt tcttacttct gccttactgg ctcatgttta 240
gatataaat tattttttga gtgttcatat aatggcaact actgtattaa atagtgttgc 300
cgaacatgt ttcttacttg atggcagaaa gtgaacaatt taagcatgca gacatcgaca 360
tacgatggca tgacaactac ctctctgaat ctgtatgaat aatggatttt 410

<210> 43634

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-B8

<400> 43634

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tccgacctct actacgaatt tggctcgtcg gtacctgcca tctcgggtga gatcatgcgc 180
t 181

<210> 43635

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-C1

<400> 43635

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gctctaaccg accgttggca gcttcagcat atacaagatt gatgactact gttacatcta 120
ctatacctct actactacta cttcagctg taacatgcca tctcacatta gatcatacac 180
tagcaccacc aaaatcacca caccacctac tttatcaact actactaggc a 231

<210> 43636
 <211> 152
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-017-Q1-K1-C10

 <400> 43636

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 gcatatccga tgcttgcggg catgtcgcgc aagtcgatgc tcggcgcggt gatcggcggc 120
 aagccgccgc tggagcgcgt cgcggcgagc gt 152

<210> 43637
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-017-Q1-K1-C11

 <400> 43637

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 ctgtcgaaac cggcgaagaa aacgagaagg ctgtatttac tgccgattct gccttgtatg 180
 agtacctaga tgggggctgg aaagaaagag gaaaagggtga actgaagctg aacgtccctg 240
 tatectctc cggcggcgag agagcccggc tcgtcatgcg ggcaaagggc aactaccgtc 300
 tggtcctgaa cgcgagcctc tacaacgaca tgctcgtcaa ggacatggac aagaaaggcg 360
 tgacgtttgc ctgtatgaac agcattgggg agt 393

<210> 43638
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 <212> DNA
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 <223> Clone ID: LIB3076-017-Q1-K1-C12

 <400> 43638

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agcttcacct gcacttcctg tcgattgcga tgatggtag ccttcactca acttgaaatc 180
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 agaagcaaat caaacctggg atggctcaga agctgttgcg gccaaagtcag atgctcctga 300
 aattgggttg caagtacctg gttcctctcc attacatgac aaaggtagcg aatccttcgg 360
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<210> 43639
 <211> 145
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-C4

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 agtggtcaca ttacacgttt ggcaa 145

<210> 43640
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-C9

<400> 43640
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 ggatctcatc caatcaacca ataaatgcat catatcctct ggtaaccatc ctgaagtacc 180
 caaatacaaa tcattctagt ctgtaaaatc tgacaacttg taatactatg accactaact 240
 gccattata atttatcaag cacatcgatt atgtatgcat atataagcat ataccgtatc 300

<210> 43641
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-D10

<400> 43641

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gttgagtacc gctgcttcgt cggcggcctc gcctgggcca cggacgacca ctccctccac 180

aacgccttca gcacctacgg cgaggtcctc gagtccaaga tcctcctcga tcgggagacg 240

cagaggtccc gcggcttcgg ctctgtcacc ttctccacgg aagaggcgat gcggaacgcc 300

atcgagggca tgaacggcaa ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag 360

tcccgcggcg gccgtggagg cggcggcggc cgcgggtacg gtggt 405

<210> 43642

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-017-Q1-K1-D12

<400> 43642

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acggccagaa cccgcgggcg cacggcggcg tgcaccagcc caccttcaag atcttctgca 180

aggccgcaga ggggtactgc ctaccgtcc gcgacggcaa cgtggtgctg gccccgcga 240

acccgcgcga cgagcaccag cactggtaca aggacatgcg cttcaacacc caagtcaaag 300

acgaagaagg caacctgcg ttctgcctgg tcaacaaagc cactgggctt ggcattaagc 360

acttcctttg gcaatcccaa ccggtgaaac tt 392

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<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-D7

<400> 43643

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caagtcggag gtcaatgacg aggatgacga agagggtagc gaggaggatg aagatgatga 120
cgagtgatgg agagctcgct cgagacattg gacggtgctt catccaacaa tggagcgggt 180
acacaaggcc ccgtggcgat caaaaaatag gagcctatat ccatgtacta gaattattca 240
gtttcactcc acatcgtgat gttttatfff tacttttgte gtgctataac tggatagcgc 300
tctctgttgg cgccactagc ggggtggatct acctctggte tgggtgtagtt gtgtgtggte 360
acacttgt 368

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<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-D9

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ccaccattcc acaacttatt ccaaaaccgg aagttgtggg ccttgccgaa ccggttagcc 180
acgccctctt tccagaacct tgcaatgtcg ccattcttgg ggggcttaac 230

<210> 43645
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-B1

<400> 43645
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gggttccacc tgggagggga cgagagcggc ctctgtaggg gtgtgctcgc cgcgctccgc 180
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ggcgccgctt tggagtttac tagggtgctc aaatccaagc ggcaggtggg gaccgggacc 300
ctgcatgacc tgatactgga ggcagctgat gctggaaaaa agagtgtgta cagagcatag 360
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444

<210> 43646

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-G5

<400> 43646

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gtacaaaact gtcccaaact gtgagccttg ccggcctctc caaagggtcac ctatcgaagg 120

tttctatcta gctgggtgatt acacaaagca gaaataacctg gcttctatgg aagggtgcagt 180

cctatccggg aagctttgcg ccaggtccat agtgcaggat tatagcagggc tcgcactcag 240

gagccagaaa agcctacaat caggagaagt tcccgccccca tcttagttgt agttgccttt 300

agctatcgtc atccccactg ggtgctatct tatctcctat ttcaatggga acccacccaa 360

tggtcatggt ggagacaaca cctgttatgg tcctttgacc atctcgtggg gactgtagtt 420

gatgtcatat tcggatatat atgtaaa 447

<210> 43647

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-G6

<400> 43647

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aacagcaaca agaaagtgat actctttatc agtcagtcaa gctgaatatt ttcaaaattt 120

tcagacaaaa cagtgataag catgctactg ctggacagtc gccctaattg tctgtcctgc 180

ggaattgttt ctgggagtgt gtattgttaa gtcggttttc tccgagttat acgagacata 240

tggcttgagt tgtgtcacca atatgcttat gccataggac tatcagagtt tacttttaat 300

ttcagagaac ataatttcca tcaatttcag taggttcatt tttaatg 347

<210> 43648

<211> 59

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-G7

<400> 43648

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<210> 43649

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-G8

<400> 43649

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gcccattctgc tcagcctgag ctgtcattcc cgcgaagcgc cgtctcccgg ctctatcgat 120

ggaccgagtc gccgcctctg tcgtcgcgct cctcgccctc ttcttcgccg ccggggccac 180

ggcgcaagcc ccggcctcgt cgcccaagcg cactccagcg ccagcgccac ccaggacggc 240

cttctctccg tcgcccgcgg ccagggcgcc tatggcctcc ccgccctcgc ctgccgcgat 300

ggcgccggtg cccgcgcctt tcgcccggcg gccggccacg agccccgacg ggcggggagc 360

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cgtc 424

<210> 43650

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-G9

<400> 43650

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ggagtcattgt aaggcttggg ctgcagcttc ctctgtattat gctgtatcac aatcaacact 120

agcgctttct caccttctgg atggaccaat gcccatgccca ctttttatgg acgtagcgat 180

gcctaaggga ccatgggagg agcttgtggg tatggaaatc tgtattcgac agggtagcga 240

actgatacag cggcattaag tactgccata tttaacgatg gagcttcatg tgatgagtgt 300

tacaaaatca tatgcgatta tcaaacagat cccagatggg gcttgaaagg agcatcagta 360
accataactg ccacaaacta ttgccctccc aattttgcta ttcccaacaa caactgatga 420
tggtgcaacc cacctgtcaa acatt 445

<210> 43651
<211> 330
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-015-Q1-K1-H10
<400> 43651

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gtccatacac aacgggagct accattcttg gtcttcacga tcgacacgca ccaccgtaag 120
tgcactgcac actttccgag cctggacttt cactgagcga attgctacct aaatgtcatg 180
ctcaccgtca tcattcatga tcttgcccca aacccaacta ttgccaaaat cgccttccgt 240
taacctatca gatacaataa gcatatccag ctattgatag cctgccaggg actctacacc 300
tgtcacatca tataatgctg caacaaggcc 330

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<211> 205
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-015-Q1-K1-H11
<400> 43652

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gagtaaagcc gtactctgtg agagcgcaca agctacgtca tcacgaatga cactctcaac 120
cgtagcgacc ctctctcat aacgtgacag aactactggc aagcacaacg actaccaaaa 180
tagcgtctta acattcatat tcctt 205

<210> 43653
<211> 291
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3076-015-Q1-K1-H12

<400> 43653

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tttttctggg ccatgtggcg atcaacaggc catttcttac atgatgccca ccaagaaatt 180
gatanacagc taaggattgt aatgctatta gaattctaaa ccagtaacac agatcaattt 240
ggttgagcgc cttgtccaag aattgtttta tcaatcatat tgtaaaggca c 291

<210> 43654

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-H2

<400> 43654

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cctattcacc atcctcatca tcaactctct caccctcttc ttcacctcca tttccactac 120
acaatccact tcctattatc ccaatcacac tccaacacca acaccacca ttacttatct 180
ttctc 185

<210> 43655

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-H4

<400> 43655

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tactacaaa ctttacaaga tttccctaca atggcgagcg atccgtcgac gttctcgcca 180
atcggggtgg acgccatggg cggcggctac tttatggccg gcagcagcag ctactgaggg 240
ggcggcattt ttagcgccca ggtgcctcac tttcaccacc ccggcgtgct tcttgacc 298

<210> 43656

<211> 373

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-015-Q1-K1-H5

 <400> 43656

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 ttattttcac aaggcaccaa accagaaaga attccatgag gaaacatgtc ggaagattaa 180
 agcactacat ctgtatgact gcttgagagc ttacaaagca acttctgcct ggggtgttga 240
 ggctcgtgtt ccattccttg aaaaagttt catcagtgtg tcaactggaca ttgatcctga 300
 atgtgaaatg ataaaacgtg acctctgtcg aattgagaaa tggggatatct cgcatgcatt 360
 tgatgatgag gag 373

<210> 43657
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-015-Q1-K1-H7

 <400> 43657

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 ctatactaaa tggaagagtg catggtgctg tctctgcaga tgaaacactt tccctgatca 180
 caaaaacat tgcttctacc gagcgaccag cagaaaatgc tgctgctgtt aggactgagc 240
 aacataaggc gaacttggtg cttacgccag gcatgaatgc ttctagaagt tctcatgatg 300
 cagttgaggt ggctggtgaa agcaagactg gcaatgaaac attgctttct gccgaaggaa 360
 gggagaagtt gggaccatct ttaaattggc ccagccaggg aattaaaagg ccgctaaata 420
 atg 423

<210> 43658
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-015-Q1-K1-H9

<400> 43658

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aagggcactg cacactttcg gagcttggac tatgaogagc gcaacggcta cctcaaggtc 180
atggtcacca tcataattca tgaccctggt caaaacgcga cagttgccaa agtcgccttc 240
cggcacccta tcagatacaa caagcatatc gagctattga tagcctgccg gggaatctac 300
acctgtcaca ccatatacat gctgaaagaa ggcc 334

<210> 43659

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-A10

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gctatcacga gctccgtacg gaactggggc gcctatattgg ccttgatggc cagttggaat 180
accattgag atcacgctgg cagcttgtat tcgtcgaccg tgacgaggac gtccttctcg 240
tgggcaacaa cccttggcag gaattcgca gcacggtggt ctg 283

<210> 43660

<211> 179

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-A11

<400> 43660

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gacttgcac actaacgcta catatatatg agttcagtca catggagagc ttgtatgac 179

<210> 43661

<211> 186

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-A2

<400> 43661

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 gtctgggacc accttagcct gggagtcaag actggcctgg catacatctg gcacagcgag 120
 gctagcaacc ccttagttaa cttggagaag gagtacaagg gcatgttctg gcaagaggac 180
 atcatg 186

<210> 43662
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-A3

<400> 43662

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 gattggcgaa gcatcttgta gaatctgtca ggaaaacttc agcacaactg ttaatgcact 180
 cactgagcct attgatatat atagtgaatg gattgatgag tgtgagcgtg tcaacactgt 240
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 atgtaatgtg ctggtattct cgaatgccat agcccatagt cagccatggc ttggaataac 360
 gtagtggctg accgatatgc cagtaggcac cttatctagt acttacagaa ctacaaaaag 420
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<210> 43663
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-A4

<400> 43663

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<210> 43664
<211> 447
<212> DNA
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<223> Clone ID: LIB3076-017-Q1-K1-A7

<400> 43664

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cgtccccgtc tatccctctt gagcttggaa cactctcgca gctagtagta gctatatatt 360
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agttttccgg tgcattgttc ttttgca 447

<210> 43665
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-G2

<400> 43665

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agaatagttt ctgggagtggt agtattgtta agtccgattt ctccgagtta tactagacat 240
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tttcagagaa cataatttcc atcaatttca ataggttcat ttttaatga 349

<210> 43666
<211> 115
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-017-Q1-K1-A8

<400> 43666

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<210> 43667

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-E5

<400> 43667

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cagattgcgg gcagccatag acgaagagag aaagaaaggt caacagggca ctgcttgcc 180
gctgcgtagt gactagtgtg cctcaaccaa aaggatccat ggctcccga gacgactcta 240
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ggatgagcat ggaggagtgc atggaggcgc tggctaagca cgccgacgta ctgcccgtcg 360
tcacctccac agtgtggaag gagctggaga atgagaacaa ggagttcttc gacaagtacc 420
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<210> 43668

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-E6

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cgttgcgaaac ctgaatcccc gtgtgacgct gctatacatt caagaccact accgcacatt 180
tgccggtctc ataaccccat ccgttcctag gtaaccacca cgttttctact tgatcaactt 240
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gcaaaatctg tcaaccaata ctaccaccgt ctttt 335

<210> 43669
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-E7

<400> 43669

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gatggcagca acagcacctc accctccact catgtggaca agaagacgga cggcggagat 180
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taagtttgta ggacttgggt tatctcctag acctggagat gcaatgcaag caggctatct 360
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<210> 43670
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-E9

<400> 43670

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tcaagaggct ctaccaaagtg catgagaccg acgcccgcct gttccctgcc attaacgtca 180
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acggcgacga ctgcaagggc cgcgctgctg ggctgaagca tgctgacgcc cgtgtcattg 360
agaccgagat cgaccccatc tgtaccctac atgctctgat ggacgggtctc aaggtacttg 420
cctcggagga cactgtctcc gaagctg 447

<210> 43671
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-F1

<400> 43671

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taagtttgta ggacttggtt tatctcctag acctggagat gcaatgcaag caagctatct 360
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<210> 43672
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-F10

<400> 43672

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ttctattata ttctcactcg tcgacatata cctactagtt gcagatgtta ttgctgatca 180
tccaccaatt gtccgctcca atgctaaca gatccaacat gaacctctat gacttcaaa 239

<210> 43673
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-F11

<400> 43673

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 gctgctgaag gaagaggatg ttgcagtaag caatgttaag atagatctta ctctggaaa 180
 agataacccc cttgaaagca tcaagtctt taaggatttt ggggtgcgacg agaagttccc 240
 catcacagat gataggggta gccacttgct acctgcatac aacgaggata gaattgtgag 300
 ggtctatgcc aagaagcctg agttgggtga tgtggtgtca gaagcctttg agaatctcca 360
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 atccaactag gcagttggat tttgtctaata c 451

<210> 43674
 <211> 450
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-015-Q1-K1-F2
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 cgggcggcgc cgggcagaat cctccgccg cgggtgaagt cggagaggag ttgcagctct 180
 cgaagaacgc gaagaagaga gaggagaaga ggaagaagct ggaagaggag cggaggctca 240
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 catctgctgc tgacgatgat ggcatggatc cactcaata ctacgagaat aggctcaaga 360
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 tctctgtagt ggaatacatt gagaagtaca 450

<210> 43675
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-015-Q1-K1-F3
 <400> 43675

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acgcttaagt gtatgtccct ttgcttcacc tcttcacttt ttcagcctac ctgtgattct 180
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ctttaggaag aagttgtgag gaaaacacaa tcctttgaca agttgaaaca agaagctgag 420
aatgcttgc aacaaagtga gagatttaac a 451

<210> 43676

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-F4

<400> 43676

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aagctcatct ggggcgccag ctttgaggat gcagctgatg tcaggaatct ctcccttgtc 240
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<210> 43677

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-F5

<400> 43677

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tgatggcaac aacatcacct taccctccac tcatgtggac aagaagactg actgcggaga 180

tgggtcccaaa gaagacgtgg atgtgtccac taaaataatg aataatgcac ttagtgaaga 240
 tgaagtttgtt ccagagtgat aaagacatcc aagatctcat gtcaacttat ggtgtgacct 300
 gtaagtttgtt aggacttggg ttatcttcta gacctggaga tgcaatgcac gcaagctatc 360
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 tctttgcatt at 432

<210> 43678
 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-015-Q1-K1-F6

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 cgggcggcgc cgggcagaat cctccgccgg cgggtgaagt ccgagaggag ttgcagctct 180
 cgaagaacgc gaagaagaga gaggagaaga ggaagaagct ggaagaggag cggaggctca 240
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 catctgctgc tgacgatgat ggcatggatc cactcaata ctacgagaat aggtcaaga 360
 ctctngattc actcaaggcc gcaggtgtaa acccctatcc acataagttt ccgggtggca 420
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<210> 43679
 <211> 261
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-F9

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gcacagggag accgaatcaa tgacaacatg tgccctgtatg agcctctatg tagtgaaaca 240
tgccaaggcg catcgacagt g 261

<210> 43680
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-G1

<400> 43680

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tgcacgatta tatcattctc tcaactcatta tccacaaaat cctacaatca tgagatattc 180
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tctcct 246

<210> 43681
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-G10

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agctcttctg gcaatgcacg ctctcaaaac ctggggagga accaaccgag ccctatacct 180
acctgcagct agatcctacg agaaggggtg aagtgaatct ggagcaaaca ggaagtgaac 240
cttgaacgag catgcctagt ttaccatcta gtgccgatgt gtcttcacct ttcgagcaga 300
ctttttctc ctagggatca catcatgtga gcacaaagct gcatatgttt ggatgtttat 360
ataatctacc taataaacca tgatccgtag agctgcctgt ccaggctgcc aactccttga 420
aagttgctga tgctggtgta agaatt 446

<210> 43682
<211> 451
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-G11

<400> 43682

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cacggggccc cccgtctacc tggccgccgt cctcgagtac ctggccgccg aggtgctgga 300
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cctggccatc cgcaacgacg aggagctcgg caagctgctg tccggcgtca ccatcgccca 420
cggcggcgctc ctcccccaaca tcaaccgggt g 451

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<210> 43683

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-E3

<400> 43683

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gatgatggct acaacaacag ctaaagactg gactcaagtg gactagaata cctgctgctg 180
ataacgtccc aaagaaaacc tggatgagcc cactataatc atgactactg ctaacactgc 240
agactaatat atccacacag tgctaaagct aatcaagatg tgcatgacgc tcgtgatgag 300
cactgaagag tgcattg 316

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<210> 43684

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-C9

<400> 43684

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catccatatt atgactacac attctatcat ctacactgac tagtggtcca atctcactat 180
gctaatacacc agatctaatac tgacaacttt tagcaaacact cttaaatacc atatttcaag 240
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cttctgggtt cctatacaaa aacagattat agacaaactg ccttctaaat ggctcactat 360
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<210> 43685
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-D1

<400> 43685

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cacgcaattg agtatctaca ttctgaggga ctagttcgga atcgagggcc gcaagttaaa 240
gcatcaggtc aatgggtccc ccaacaatta aaccagatgg cggattggag cttgatgttg 300
ggatgatgca tgcacctttc aagtttcaga atgttgctc caaatgcagc ttgtggttgt 360
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aatacttggt tcggatgatt tatgcttcaa tt 452

<210> 43686
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-D10

<400> 43686

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cttgctgata cgggcatcaa atatgaatac atagacgagg acttaacgta ctatagatct 180
ctactcctac aaatgtaccc gggttcacaag aagattccctt ctctcattca cactgacaaa 240
cccatttgag aatccctcat cactgttcac tacatagacg aggttagtga tgacagaaat 300
cccttggtgc cctctgaccc ttaccacata gctcagccta gattcttggc tgattatcct 360
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<210> 43687

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-D11

<400> 43687

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ccattggtgc cttatgaccc ttaccacata gctcaggcct gattctagac tgattatgca 360
gatccgaaga tatactatct tggaatgaag atctgggtcat taataggaaa agaacatgaa 420
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<210> 43688

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-D12

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<210> 43689

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-D2

<400> 43689

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aagtctacaa gaccttctgc caacaattat caaccaactg ggccctgata acctggagaa 420
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<210> 43690

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-D3

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cctggatccg cgtgtcacgg cgcgggagat tgatgacgag ttccgcacgt ttggggttct 180
gaagagtgta tgggttgcta ggaaaccacc agggtttgcc ttcattgact tctatgaccg 240
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308

<210> 43691
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-015-Q1-K1-D5
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tacagaacaa tgtcccagg gtcgagaaag taagagcata ggctcaacaa ttacagatgt 300
tactactcat gacacacata agttgtgtct gaatactatg aatgaattgg ccctttgtag 360
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<211> 438
<212> DNA
<213> Zea mays
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<210> 43693
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-E1

<400> 43693

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gactatgaca acatgatggt taaccacttt gtacatgagt tcaagagaaa gaacaagaag  180
gatatcaatg tcaacccgat ggctctttca cagctgagga cctcttgtga gagggccaag  240
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gacttctact ccaccattac ccgagccagg tttgaagagc tcaacatgga cctgttcatg  360
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<210> 43694
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-E10

<400> 43694

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gcggcagagt tcgtgaagct caccttacgt gccctgtata tgcgccgggc tgggccaggc  180
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gtcacgggtc tggtcggtaa cgcagacgcc ttgttcacca tgggtgttca aaccgacagg  360
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<210> 43695
 <211> 449
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-E11

<400> 43695

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<210> 43696

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-015-Q1-K1-E12

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<210> 43697

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-E2

<400> 43697

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gctggcatgg ccccgccgg cctgggtgt ccccggcgtg ggcacgggccc cagcagcccc 240
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gttctggcgg gcagcgctac caccgtctgt ccgaagatt gcagcacaca tgtgtgcaag 360
aacagcgcca ttgcagatga ggaccgacag atacataaca aaactgagta agcataaatc 420
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<210> 43698

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-C8

<400> 43698

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ctagccactc ggtcgtgtag tcatcagcct tctgatcgtc acccatggcc actgccgagg 180
tccagacccc gaccgtcgtg gcgaccgagg aagcgccggt ggtggagacc ccggctccgc 240
ccgccgtcgt gcccgaggag gctgcccccg ccgccgaggg caaggtggag gagccagctg 300
ccccggcgga gaccgagcca gctgccggcg gttaacccca agccggcccc gtggcggcgg 360
aggaagagac gccaaaagaa gaagagacgg ca 392

<210> 43699

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-B10

<400> 43699

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attataaact acatatcaaa atcacaaact ctcttggatc aatacaactc aaccagatt 180
acatgattca cctacaatca tcataactat atctataatc tatcttacat caatctgcca 240
atatcacttg ccaatacatc tacactagct aatccaacca gtcaaccaac tacttcaatt 300
cattataaca tactgacatt tacactcaag caatcagaat actagccacg actatatcta 360
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<210> 43700

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-B11

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catactccta aatcacttaa gcctaatttg gagacttata tcaacttggc catacacaac 180
aactcgatct atataacacg ttatataact tacccaatca ataaagtctt aatggattgc 240
ataatctatc aaccgacacc tgacatcaaa ccagattttg acctatatca tgtaatctat 300
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<210> 43701

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-B2

<400> 43701

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cgccagccgg agccatggcg accgtcgggtg cacaccatcg gacctctcgt gcacgccgag 180
aacagtggct gcagcaaaga ctactcgctt tgcccagagc tggagtgtca ggaccggcag 240

tccgcctaaat cggtcataact caatgccttc ggctacagct gca 283

<210> 43702
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-B6

<400> 43702

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gccgaacccc ggccaaccgt cggcgcgcac catcggcccc ttctgtcccc ccaaggacgg 180
tggcgtcagc aaggacaacc cgccttgccc gtccttggag tgctgtacc ggctgccggc 240
caagtccggc atcttcgcgt ccttcggctc cggctgcacg ctgcccgcg aggagatgcg 300
ggagcttgca ctaggcctgg ag 322

<210> 43703
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-B7

<400> 43703

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cttgtaggat attccggaaa tggttttagca tgccttttga ttttaagcatg tacctgttaa 180
aagtcttctg tggtttccag gttaatggag ttggaaagac cgcagttaca gtggagtacc 240
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gttccaattg caagtttgat catcccaggg aggggtgggtt tgtacctgtc acattgaaca 360
gcggtggatt cccctgcgt ctgggtgaaa aggaatgttc ctattacatg aaaactggac 420
attgcaagtt tggagctaca tgt 443

<210> 43704
<211> 456

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-015-Q1-K1-B8

 <400> 43704

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 aacgccggcc gggagaacct tgagttcaac tttcgctgga cccgccgcaa ccttgccgtc 180
 gtcggcctct tcggccttgc tgtccccatt cttgtctaca agggcattgt ccgcaattc 240
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 gctgtagaat acgtcgattc ctctaccggg gctgtgagga gaggagtttc tattcagttt 360
 gtatcggtat tgtttttagtc tgaatctgat gaagcaattt ggaatgctga attatagtgc 420
 ctgatccaca tgaataatgt gtaatgactc gtcttt 456

<210> 43705
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-015-Q1-K1-B9

 <400> 43705

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 tcggatttcg atttatccct ccgatgtgct gtgagcccta ctcttatcag atcttctaac 180
 tccagtgggg ataaccataa gggcaaccca gcttactgca tgcagcctgt gtgcattgag 240
 cctgcctgta tgctggctta ttgagtcacg acaaccacat gcttctctcc tcgcttacac 300
 tctgacaaat ccaatgagga aatcgatata ctggcaaagg cagactctgc aaaataggtc 360
 agaccacttt ctgagcttgt tgcataagtc gcagatgcaa ggtctatgtc ctatgggtg 418

<210> 43706
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-015-Q1-K1-C1

<400> 43706

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ctgtcctcac tcgtagacta tcctcgagaa gctctacaat gcctccacct tccaccctct 180
cgttgctcatc aacatagttt ctttttgatg caaatgatgc cgtaaaccac gacgactccg 240
ttgactcctt agaccactac gactccgctc tgtgccagca ctatgtggcg catcgtgttc 300
tcacccattg agcaaccttg ccaccaagat catgttcgcc aacctctttt acctcct 357

<210> 43707

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-C10

<400> 43707

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ggggaaagca cgctagctga gctgagctgc tgagagagag agagaggcaa accctatcac 180
gcacaagcac agcaacgtat acgcttcccc cgcgcgattc atccatccat cgcagcgcgc 240
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tatctccgtc gcagtaccca ccaccaccac caccatgatc ttccccctg ccttccctgca 360
ggattcctcg agctggaacg ataaccagca gcagcagcac caccagcagc agcaaggcca 420
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<210> 43708

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-C11

<400> 43708

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tccctccgca aggggggaaag cactctatct gatctgaact actgacagag atagagagcc 180
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 atcgcatcgc acaccgatca gtctgtccat gactactaca gctaactctag cacatcacia 300
 tagcatatca tctatctccg tcgcagtacc caccaccacc accaccatga tcttcccccc 360
 tgcccttcctg catgattcct cgaactggaa cgataaccat caacatcagc accaccaaca 420
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<210> 43709

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-C12

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 acactcttga atctgatatt acccaagacg ccactctgaa gctgctacat tcaactggatc 180
 caattaaaaa taatgacacc aacgataggg gcacattaca tcttaaggta aagtaccacc 240
 cctttacaaa ggaagagcaa ctggaagccc tatacatgga aaaacaagcc atataggaga 300
 agaaccctct gaaggatgct gggataaatg gtagcacaat ggatgctgtt tgttc 355

<210> 43710

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-C2

<400> 43710

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 ggccgggaga acctcgagtt caacttcgcg tggaccgcc gcagcctcgc cgctcgctggc 180
 ctcttcggcc tcgtgtccc catcctcgtc tacaagggca tcgtccgcga attccatattg 240
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gaatacgtcg attcctcgac cggcgtgct aggaggggag tttctattca gtttgatcg 360
gtattgtttt agtctgaatc tgatgaagca atttggaatg ctgaattatt gtgcctgatc 420
caaatgaata atgtgtaatg actcgtcttt tt 452

<210> 43711
<211> 322
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-015-Q1-K1-C4
<400> 43711

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cgtacctaac aacctccact caactcctca tcctcctcat ctacacccat tgccactgcc 180
catttccaca cccaacccc atctcaacca ccaaaacact cacctcgaat accctatctc 240
ctaccaccaa tccaccgac catactgccc cctcctccaa tccaatccc aaactaccaa 300
ataccccaac ttatacaaaa cc 322

<210> 43712
<211> 467
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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ccggtggatc gaagagtgga acgccggccg ggagaacctc gagttcaact ttcgctggac 180
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aggcatagtc cgcgaattcc atatgcagga cgaggatgca ggtctgccat acaagaagtt 300
cctgtaagcg gcgtccatgg ctgcagaata cgtcgattgc tctaccgagg ctgcgatgaa 360
gggaagttct attcagnctg tatcgggtatt agtttagtct gaatctgatg aaaccattnt 420

gaatgctgaa ttattgtgcc tgatccaaat gaataagggtg taatgac

467

<210> 43713

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-C7

<400> 43713

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aagcttcaag ctggccctcc cttggatgaa atgtctattc catacatttc gagggacttg 180
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aaagcatcat gtcaatggtc ccgccaacaa ttaaaccaga tggccgattg gagcttgatg 300
atgggatgat gcatgcacct ttcaagtttc aaaatgttga cctcaaatgc aacttgttgt 360
tgttgaacct attctacttg cttctggatt taagttatag tttattaaac aaatttgatg 420
ttaaatac 428

<210> 43714

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-B1

<400> 43714

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caggttcact gattccctca tgctactgcc tattggcctg cttcatgggtt tccttatgga 180
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agcctaattc cattttatat tatgtatttc tgtctatgtc gcttttcctt gatgttgtgt 360
ac 362

<210> 43715

<211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-014-Q1-K1-H3

 <400> 43715

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 tggaccaagc tgggcagaag aagcaggact atgagaagac taaggcaaatt attgagaagg 360
 agagcacaag ctcaaagaag gctaagactg atgacgacga tggctcgaag tccgaagtcg 420
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<210> 43716
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-014-Q1-K1-H5

 <400> 43716

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 gcgcggggcca gggcgctccg gaggtctctg ctggcccgtt ggaagccgct cagcgccatg 180
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<210> 43717
 <211> 394

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-H6

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<210> 43718
 <211> 123
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-H7

<400> 43718

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 gcg 123

<210> 43719
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-A1

<400> 43719

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 aataattaca acacccatca tttccacaac ttccatatca aaatcccact aatctaccat 180
 aaaatcaatc ctcttctctt aaaattccat accaccttta acatttaca acccaacctt 240

tt

242

<210> 43720
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-A10

<400> 43720

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aacctaccta tatectccca atcaagccct atcgcccact gtcctctca atcccacct 240
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<210> 43721
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-A12

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<210> 43722
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-015-Q1-K1-A2

 <400> 43722

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 caactcctca tcatgttcaa agcattcctc attcactact tcctcaacct caagaacaac 180
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<210> 43723
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-015-Q1-K1-A3

 <400> 43723

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 caagtgcaca gattaccgca tgccactgcc tattgacctg ctgcagattt tccttattga 180
 tacagccatt ctttccatgg gtggcatggc catggcttcc ctgcccaagc accacaaggc 240
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 aacctaatcg catttttagat tatatatgtc tatccatata tctattcctt gctgggtgctt 360
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<210> 43724
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-A5

<400> 43724

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<210> 43725

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-A6

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tgggacaccg ccggccagga gaggtaccgt gcaatcacia gtgcctatta ccgaggagcc 360
gtagggggcac tgctcgtcta cgatgtcacc cgtcgcgcca cgttcgacia cgtgggcccgt 420
tggtcgaggg agctcagaga ccacaccgac cagagca 457

<210> 43726

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-A7

<400> 43726

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ggagttacac tttgtcggcc gccatcggag ggctgttccc gttgctgagc ttccagggtgc 120
acggattccc gcaggcgact gcctatgggc ctgctgcagg gtttccttat ggatacggcc 180
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tcgatgcgta cttgaagggtg ctgctgctgg cagttgggtg gcttgtaatt gccagcctaa 300
tcgcatttta gattatgtat ggctggcgat gtcgctggtc cttggtgggtg tgtaccgtag 360
ttctagcatc attgcatctt atatggctcc caaagtttga tgtcaatgtg taaagtattg 420
tggatgcttc 430

<210> 43727

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-015-Q1-K1-A9

<400> 43727

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ccagtcaaca tattcacaga gtctacattg cccatatatc aatctattag attcacgcgc 120
agaaaactcta gattcacact ccaccattga ctctccataa aacctaccta tatcctccca 180
atcaagccct tacgccgacg tgcgcctcgc aactacatcc tacaatcgct acacctacat 240
tccgcgccat catctcccgga atctcctcgt ctatccatca caccttctca catctccaac 300
cgtgtactga gtcctatcgc cgtaacttca tgtactgaat cgacaccctc tccgaagcat 360
actctcgaat ccgctagaac ttcgtctact ttcacgtcaa ttacctaacc ctaatccagt 420
actcgttagc ggactct 437

<210> 43728

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-014-Q1-K1-H2

<400> 43728

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ctcgctcgagc tcgacctctc caatgggggtc gacctcgggg acgccgcggc ggccgaggtg 120

gcgcggggcca tggcgctccg gaggtgtcgc ctggcccgcct ggaagccgct gactgagcgc 180

cnctnnggatg cgttgtcgtg ggtgacacgc agntgatgga gatgtcgatt aagtgggtgtc 240

ttgggattac ggatctgggg atccagctgc ttgccctcaa gtgcacgaag ctcaccaggc 300

tgtatctctc ctacaccatg atcacaaacg ctagcttgcc ttccatcatg aagctaccca 360

ttcttcacta gttgacactg gtggggtgta ttgccaccga tgatgatgct cttggtagcc 420

ctgagagaga at 432

<210> 43729

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-D3

<400> 43729

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ctctatcccc ctcgactagc agtagttgtc accgactcac gcataccgcg gaataaatat 120

tggtattggt agtgtgatat ctatattaag tcaagatg 158

<210> 43730

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-D6

<400> 43730

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ctccggggcct gttcaagatg aatgtggaca agctcaagat gatggcggct gatgcgcaca 120

ctggaagaaa gggcagcatg cgcaggaaga tgaatgtagt acacaagacc ggagccaccg 180

acgacgcgcg gcttcagagc acgttgaaac gaattggact gaacactatt cctgggtattg 240

aggaggtcaa cattctcaag gatgacattg ttatccaatt tcagaaccct aaagtgcaag 300

cattcattcc tgctaataca tgggtagtca gtggagtacc ccagacaaaa cgtctacaag 360
accttgtgcc aacacttatc aaccaactgg gccctgataa cctggagaac ctgatgaggc 420
ttgctgagca tttccagaag catgtacctg atgccgaagc cagctccagt g 471

<210> 43731

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-D8

<400> 43731

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cttgggtccg ttttttttagc tgca 84

<210> 43732

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-D9

<400> 43732

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aggggggtctg acttctggtc gtgtgcgcct tttgcttcac aaaggcactc cctgctttcg 120
cggatattgc aagcgtaatg gtgagcgcac gagggaaaact gtacgtcggc gtattgtgag 180
ccaagaccca tatgttatca aactctggaa ttgttaaaaa 220

<210> 43733

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-E12

<400> 43733

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gaggccgaga ccccgaggag gacttcctcc tcggcggcgc cggctcctgc tacgacggag 120
atctcgtcgc cgtcttctgc gacggcgggg cgggtgacgg acgactcggc attgagggta 180

tccatcgaga tgcttgtgga tttgagcaat ctaattcggg gaacaggggc agagatgaac 240
cctgatcacc tcgtccaacc tccaagctt g 271

<210> 43734
<211> 282
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-014-Q1-K1-E2

<400> 43734

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tgttttgtat cgtaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaacaaaa aaaaaaaaaa actttctntt ctncaaaacta 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggtaatgat tttaaaataa 240
atatattaat aacaatagta taaaaaaaaa tatatTTTTT ta 282

<210> 43735
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-014-Q1-K1-E3

<400> 43735

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attgaggaag gtatctttga agtcaaggcc acagctggcg acacccatct tgggtggtgag 120
gactttgaca acaggatggt taaccacttt gtccaggagt tcaagcgaga gcgcaagaag 180
gatatcactg gcaacccgag ggctctccgg cggctgagga cctcttgtga gagggccaag 240
agaactctgt cttccactgc ccagaccacc attgagattg actcgctgta cgagggcatt 300
gacttctact ccaccatcac ccgtgccagg tttgaggagc tcaacatgga cctgttcaag 360
aagtgcattg agcctgttga gaaatgcctg anggatgcca agatggacaa gagcagcgtc 420
catgatgttg tccttggttg tggctccact aggat 455

<210> 43736

<211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-014-Q1-K1-F10

 <400> 43736

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 ggcggacctt tcattgtgtc aggaaggata cacgcctagc catcatcggt actgtgttcc 120
 gatcaattgt cgacctcttt tatgtcatcc agatgatgat aaagttcagg actgcatata 180
 ttaatccaag ctcaaactta ggggtttttg gtcgaggaga tctcatcaca gaccctaagg 240
 aaatcgcata gcagtacttg agatctgact ttgatgttga tttgggtggc tctttgcctt 300
 taccacagat cattatttgg tctgtgatac catctatcat atattcttcg tctgagcatg 360
 g 361

<210> 43737
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-014-Q1-K1-F11

 <400> 43737

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 gttcctgggg tctgatcagc catgttcaag aaacctgttg atgtgaaaac catacagcgc 120
 ttgtctgggg cagacaaaaa gaagctaaga agaactgcc aagggaagggt tccacaggct 180
 tctgatgctg accttgatgc catccttctt cccaaggctg agataacagt tgctaagtac 240
 ccgaaccatg ttcttgtata tggcatagag ggagagttcc caatgatttt caaactgac 300
 gcaagaggtc atgaactgtt tcctacagtt tatgcgcttt ggaagggtcc ccatctgttg 360
 ccagctttta cgcttaaagg tgggtgagggt tcacgttttcg tgattggtgg cgctgatctg 420
 atgtttctctg gtatcagcat a 441

<210> 43738
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-014-Q1-K1-F12

<400> 43738

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gatgctcttc gtcgctcttc ttgtcgctgt ctgcttcggc gccaccgccg ccaggtccag 120
ccacgcccgc cacaccgacg ccgacgacgc gattcgtctc cccagcagct ttggcgctgg 180
tggtcgaccg tggaattgct gcgactccgc tatcaaggac gcctccctgc cggcgctggc 240
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cggcgacggc ttcgtctgcg gtgactntat ctttaagcctg accgagcccc cggctctgcac 360
accgaggccg tgggactgct gcgacagcgt ggccctgcaca agggactaca tccacaactg 420
catgtgcctg gacaaagtgg agtc 444

<210> 43739
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-F3

<400> 43739

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ttcaccaaac acgcagcaga ctatatctga gatcctggat tttcttatgg atgcaaatat 120
acgcttaagt gtatgtccct ttgcttcacc tcttcacttt ttcaagctag cccgcattct 180
gaaacaggtt tgccaatcgc taagctctgc ttatggtgat gaccaaggga tgaattggtt 240
cttgaggcgc agatgaatat aaacttgatt tccctgaatt attcctacca aagctactga 300
accacttcag cacgtttctt acttggccct aaatttacgg aattctctat attttcctca 360
ctttaggaag aggttgtgag gaaaacacaa tcctttgaca agttgaaaca agaagctgag 420
aagtgcctgc aacaaagtga gagatttaac aatg 454

<210> 43740
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-F6

<400> 43740

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gcgcacgtgc ggatcaccgg cgtcggcgag tcaagacagg agctcgcgac gcaccggcgc 180

gcggctgggg cgcgtggtcg ccgcgctcgg gctcgcattc gagttccacg ccgtggtgga 240

ccgcctcgag gacgtccgcc tgtggatgct ccacgtgaag cgcggcgagt gcgtcgccgt 300

gaactgcgtc ctgcgggcgc accggctgct ccgcgacgag accggcgccg tggtagccga 360

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cgcctcaac 430

<210> 43741

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-014-Q1-K1-F7

<400> 43741

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ttgcttgaac agtgggaagag agcgagccga ggatggcgta gcgggactcg ttgttgngg 180

tcctgtgtgt gctggttgag gtggacgtgc tggcgctggc gcgcgcggac ctgacgcacg 240

acaactgcgt gaagaacaag aaggtgactg agcataacct gtgcagcgac gacgtgacgc 300

tgatgtgga gccgctggcc aacagtgcgc cgatgttcgt gggcacctac acgttgtacc 360

cgtgcagtca cgccgagtta cccgtgtgtt ggtggacgga gagcctgcgc gcgcc 415

<210> 43742

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-F8

<400> 43742

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gttcctcttg cacacatctt tgatcgtgtt gtggaggaat tgtttatttt ccatggtgcc 120
tctattggat tctggcaagg ggatgttaag ctactagtgt catcgaatcg acgtgctgaa 180
accaacaatt atgtgtgctg tttctagtgt tcttgatcgg atattttctg gactacaagc 240
taaaatttcc tctggtgggt ttttaaagag tacaatgttt aatcttgctt acaaattcaa 300
gcagtttaga atgatgagag gagctaagca caatgaagct gcttccatat gtgacaaagt 360
agtttttagt aatgtgaaag agggtttttg tggaaatgtt agagttattt tatctggagc 420
tgcttcactt gttaccaatg ttgaagaata ctt 453

<210> 43743

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-G8

<400> 43743

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tntagccatg gacgccagcg gagccgtag caaggggaag aagggtgcgg ccgggcgcaa 120
ggcaggcggc cccaggaaga agtcggtgac gcggtccgtc aaaggcggag ctgcgttccc 180
cgtcggccgg atcgggcgct acctgaagaa gggccggtac gcgcagcgcg tgggactgg 240
cgccccgtc tacctcgccg ccgtcctgga gtacctcgcc gccgaggttc tggagtggc 300
agggaaacg cgaaagaca acaagaagac gcgcattcatt ccgcgccacg tgctcctggc 360
gatccgcaac gactaggagc tcgggaagct gctggcaagc gtcaccatcg cgcacggcg 420
cgtccttccc aacatccact ccgtgc 446

<210> 43744

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-H1

<400> 43744

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caaagatcct cggttggact acgcttggtt acagaggaat ttttgcagct gacactatac 120
 cacccttagt tgagtctgac aaagaagcag atgaacgcca ttatgactgt cgcgataga 180
 aaatggagtc gcagaagggt cgactgagat cccaaaaggc gaagcaatcc cgctggagta 240
 caatcttgct ggcttgaacg ccatttcgtt cgagaagggc tgctacatcg ggcaggagct 300
 tatcgctcgg acgcaccatc gcggtgtcat ccggaagcgc ctaatgcca tgaagttcgt 360
 cgacgggaat gggcaagaac tcgagcatgc cgtcgctcca ggctcggatg tcgtggacga 420
 ggcttcaggc aagaaagtct gggcagttag cac 453

<210> 43745

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-H10

<400> 43745

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 gctttgatgg accctcagag gatgaatcca acattctttt tggttgattgt ctteactactg 120
 attgcacaag gagagaagta gctcattagt ttcgttggtt tcctggcttc aaggacatca 180
 tagtagtgca caaggaaccc agacgtagtg gtgacaaggc ctatgtcctg tgctttgtgg 240
 agtttgagaa cgcgaaattc gcacgcactt ccatgcaagc tatacaaggg taccgcttcg 300
 atgaccggaa gcttgacgac cgggtgtctct agatccat 338

<210> 43746

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-H12

<400> 43746

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 cgcaattttg atcgccacag gatcaatggc aacgcattgg acaggaccct tagagagatg 120
 gtgacaacat tctttataag ggagtagggg tcctactgat tgcacaacga gagaagcagc 180
 tcattaggtc ctgtgtattc ctggctttta ggacatctga gtaatgcaca aggtacccag 240

acgtaagggt gacaatgact atgtactgtg ctatgttgaa attgagaacc cctaaaattc 300
actcactaca atgcaagctt ta 322

<210> 43747
<211> 110
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-D10

<400> 43747

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aaaaaaaaaa aggaaagggg gaaaacgggg ggacgggagc caagaaccaa 110

<210> 43748
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-014-Q1-K1-A5

<400> 43748

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gagcgagtga aggggtcctc atcgctcaag gacattccgg tggatgatcat gtcgtctgag 120
aacgtgcttg cccggatcag caggtgcttg caggatggcg cagcggngct gtcctgaag 180
cccgtgaagc cggccgacat gaagaagctc aagtcacacc tgctgaagcg gaagcagccc 240
aagcagaaga acaagcctca ggcgcaggcg gtggagtctc ctgagcagca gctggacccg 300
catccgcagc cggatgcacga gccggaggaa gccgcagcag atcgcaacgg cgtcaacaag 360
aggaaggcag cggccatgga ggaggggctg accgtggtgg tgacggcgcc ggagagcacc 420
aagccgagga ggctgtctac gaacaagctg act 453

<210> 43749
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-A6

<400> 43749

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 ggatgaaggt aatagctgcc tacctgcttg ctgttctggg tggaaacact tccccgactg 120
 ctgatgatgt taagagcatt ctggaatcag ttggtgctga agctgatgca gcaaaactag 180
 agttcctgct cacagaactc aaagacaagg acataacaga agtgattgca gctggaaggg 240
 aaaggttatc ctctgtgcct tcagggtgtg gtgcaattga catgggagct ccagcagctg 300
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 aggaagagtc tgatgaagat atgggtttca gcttggttca ttaacacacc actgccagtt 420
 tacagtttct ctgcgaatg gtctcacaat attc 454

<210> 43750
 <211> 287
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-014-Q1-K1-A7

<400> 43750
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 ccatncttcc gggcacgcgc ccgcgtgccg acgatcgact gccgttgcca gtgacgacgc 120
 gctactcctc cttgccggcg tattactcct ctgcgcgcgc atttcacgca gttctgcata 180
 ggtcagccaa gattcgagcg ccggcgaggc gttgtcagag tggaaccaga acataagctt 240
 gaagaagctc aagtttcggc aaggcggatg tggccggagc gcgcgag 287

<210> 43751
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-A9

<400> 43751
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 gctgtgctct gctccgctg atccttcctg cgcccttgt ttttctctct cgtttcaggt 120
 gccagcctt ggttttgcag agctcattca gtggcctctg ctgaaaagtg ttcaatggcg 180

tcaggagcca ccttaagctg ggttaaaacc ccatttgaca cccgaagatt tcatgaccta 240
tctaatactaa gtttccgctg ccgaaaccct tttggatcaa ttcagccctg gtggctgcaa 300
actgatcaag actcatccct aatcaagggt cgcgt 335

<210> 43752
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-014-Q1-K1-B1

<400> 43752

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ggccaaccaa gaagaatttc gtcaggaaat tcgcagtata attcacgatg aatttgaaaa 120
atactgtaga acacagccca ttcaaaactc tgtgagcaca actgacgaca gaaaccttca 180
tgtggctgat gaaccaacgg cactgaaatc caaggacatg aagatggcta attcaggatt 240
gacaaaatctg cacagccaag caatgacgta tgcaaggcta tctgaagccc caggacttaa 300
gatgggttct tccttgagtg ggaactacca agatcaatct aaggagatgg atgggctgct 360
aactgtactg ccaatatcag ctgaaagtgc tggattactt nncaagccgc cagatggacc 420
aacaggctca gatctagt 438

<210> 43753
<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-B10

<400> 43753

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atggtgccag gcatatttct gggagggaaa cttacacaaa atgggtgcta tagactatat 120
aacgatccta aaccatcgga tcaataacca aaacgaggtc tgtatggagg atacgccaaa 180
gatgcttgat gacgttaatg gtggatctct catattttac aaaggaata 229

<210> 43754
<211> 379

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-B11

<400> 43754

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 cacggcgtgt ctggctacca catcgaccct taccagggcg acaaggcgtc ggccctgctc 180
 gtggacttct tcgacaagtg ccaggcggac ccgagccact ggagcaagat ctcccagggc 240
 gggctccagc gtatcgagga gaagtacacc tggaagctct actcggagag gctgatgacc 300
 ctcaccggcg tgtaccgggt tctggaagta cgtgtccaac ctggagaggc gcgagacccg 360
 ggggtacctg gagatgctg 379

<210> 43755
 <211> 75
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-B12

<400> 43755

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<210> 43756
 <211> 146
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-B3

<400> 43756

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 gtaggtattg tagatcacat gctatt 146

<210> 43757
 <211> 122

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-014-Q1-K1-B5

 <400> 43757

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 taggtcaatt ataataggtg ttgggaatgc acttatgata attacatgta ttatcatgat 120
 tg 122

<210> 43758
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-014-Q1-K1-B6

 <400> 43758

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 ttgggttaat taagttagct ttcgtggaga tttcgccccg gggcatcaat aaaatgttgg 120
 catgcgtggg gggatgctat cctttttttt attttatttt attttattct taacttggat 180
 cagttggggg tttgaacatt gctagtgtcg tgtgattggg aaggctaata tgatgccttc 240
 gatgcagagt tttcaatgaa tgccttgggtg caaacgtacg attgtgtaat aatgccttct 300
 attgatcagc gactccaata gtccaatgtg caagtattct tcgtc 345

<210> 43759
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-014-Q1-K1-B8

 <400> 43759

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 tgttttagta ggagaagatc taaatggttg tgcttttgtg tategctcgt taggttttgt 180
 tgacaaagtt tcatgtggag tagttctgta tattcttgag tcctatcaag gaagtacaga 240
 gatcagatca aatttaggaa cagcatttgg ctattcaatt acaagacttg gcttgggctt 300

agttccagct gtctgttcgc tgctttcatc aatagtggct tataccatgg acctccctga 360
 ccctgatact cggcgggagac ctttgggtgga gccccttcta gtataacttc actggtgacc 420
 tgttacagtt tcatacctgaa catttacatt aa 452

<210> 43760
 <211> 461
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-014-Q1-K1-C3
 <400> 43760

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 gggcctcgcc cggagacggg cctcgagaag ctccgcaagg ccaccaccgc cggcccgcctc 180
 gtcgtcgtcg acaaaggtgc gttttgttgc agtcgatgcc gtcgaccccg acgacgccgg 240
 tgacgccttc gacgacgacg acgccgcgcg ggcgcagcaa cgtgtggcgc agcgtgttcc 300
 acccggggag caacctggcc accaagggca tgggcgcgcaa cctcttcgac cggccacagt 360
 ccaacttccc caccgtctac gactggctct acagcgacga gaccaggagc aaccaccgtt 420
 agatcggaac ggacgaatcg ggtggtagtg gtggatgaag a 461

<210> 43761
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-014-Q1-K1-C4
 <400> 43761

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 gggattgggc tggacgacgc ggccaagcgt ctgggcgtcg agcgacgccg gatctacgac 120
 atagtcaacg ttctcgagag cgtcgggatt cttgtgcggc gcgcgacggc tcggtatata 180
 tggctcggat tcgggggagt ccctgctgcg ctgaaagaac tcaaggagag ggcgctaagg 240
 aagatgtccg gatcaccggt gttactgtca atggaggact cctctactgc caacttatca 300
 gatgatgagg atgatgaaaa attgggcgat gctgatgaag atgctgagag cgagaagctc 360

agccaacctg ttgacaatac gtctgataag cctgacgcac ccagctgccg ccttagatct 420
gatcatcgga aggagaagtc ccttgggc 448

<210> 43762
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-C5

<400> 43762

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cgcccacaag tacgagatgc tgggcatcta cctgcagcgg tcagcggagc gctgtgcgcg 180
acgggcgtgc cgctggccgt gatctacggc ttctcggagc cgatcctggt gttcctgggg 240
cagtcgccgg agatcgcccg cgcggcggcc atcttcgtgt acggcctgat cccgcagatc 300
ttcgcgtacg ccatcaactt tccgatccag aagttcatgc aggcgcagag catcgtgctc 360
ccgagcgcgt acatctccac cgcgtcgtg gcgtgcacc tgctgctgag ctgggtgggc 420
gtg 423

<210> 43763
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-C7

<400> 43763

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ccgacacact cagacctgag aataaatatt ggtattgcgt gtgtgatatt tattagaagt 180
taag 184

<210> 43764
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-A4

<400> 43764

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tgggatatgg tgcttgatc tggcagcgga ggacaaggtc gacggcggca gctgaaggac 180
agtcattcta tacagaagga tgattcaagc aaaggacaag gcggtttgaa tttcagtatc 240
gtagccgctc tgattgtgct actggttgct ctgatagctg gactgctctt cactggttcc 300
gccggatacc caatataata cctacgtaac taactgcgct gtaccccacc agtagatgcg 360
aaaagcaaag atgttagaaa ctgttgaagt ggagagttga atttatttaa tgtagaagc 420
tgttgttcac atctctatt 439

<210> 43765

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-C9

<400> 43765

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gcctctattg gattctggca aggggatggt aagctactag ttgaagatat tgggtgtgctg 180
aaaccaacaa ttatgtgtgc tggtcctcgt gatcttgatc ggatattttc tggactacaa 240
gctaaaattt cctctggtgg gtttttaaag agtacaatgt ttaatcttgc ttacaaattc 300
aagcagttca gaatgatgag aggagctaaa cacacatgaa gctgctttca tatgtgacaa 360
agccccctttt 370

<210> 43766

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-D1

<400> 43766

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 tatccccgcg gacgagcagc agctgccacc gacgcacgca gaccggggaa taaatattgg 120
 tattggtagt gtgatatcta taagaagtca agatggtgaa gttcacagct caagagctcc 180
 gtgctatcat ggacaaaaag aacaacattc gtaacatgtc tgtcattgct catgtggacc 240
 atggcaagtc tacgcttaca gattcccttg tggcagctgc tgggattatt gcccaggaag 300
 ttgctgggtga tgttcgcatg actgatactc gtgcagatga agcagagcgt ggcattacaa 360
 tcaaactctac tggatatctc ctttactatg agatgactga cgagtcactg aagaactaca 420
 agggtgaaag agat 434

<210> 43767
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-013-Q1-K1-E1
 <400> 43767

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 tcgtctccga tccagacggg tgtgcctggt ctgcatcttc atcctctgca agaaatcaca 120
 catctcgtgg cgcaccttgc atcagccgcg gccggcacct ctactctcgc ccgcccccta 180
 tgtcgtaagc gcgcaatcag aactcccgat caccgcgacg ctgggtgcgc agtgtcgtct 240
 tcgccaccat gaactccatc gagcccttca acaggctggg gaagctggcg gcccgcgcc 300
 tctacgatga cgtctcaatg aaaggcgaca accagcccaa gacctccgc ggggacaacc 360
 gcggcatggt cgtcgtcg 378

<210> 43768
 <211> 338
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-013-Q1-K1-E2
 <400> 43768

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 tctgtcgggt ccgatccaaa cgggtgtggc tggctctgcat cttcatcctc tgcaagaaac 120

cacacatctc gtggtgcacc ttgcatcaga ccgggcccgc acctatactc tcagccgccc 180
cctatgtcgt aagcgcgcaa tcagaacttc ctatcacccg cacgctggtg cgccagatgt 240
gtttttgccca ccattaactc catcgagccc ttcaacaggc tggatgaatct ggctgacccc 300
gccttctact ataacatctc aatgaaaggc gacaacca 338

<210> 43769
<211> 436
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3076-013-Q1-K1-E4
<400> 43769

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gggggggggg gnnngnnngg gggggggggg ggggggnngg gggggggggg ggnngggggg 120
gggggggggg gggggggngn gggggggggg nggggggggg gggggggggg gggngggggg 180
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gggggggggg gggngggggg gggggggggg ggggggggnn gggggggggg ggggggggnn 360
nggggggggg ggnnggggag gggggggggg gggggggggg gggggggggg gggggggggg 420
gggggggggg gggggg 436

<210> 43770
<211> 79
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-013-Q1-K1-F6
<400> 43770

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ggaatttaaa aaaaaataa 79

<210> 43771
<211> 334
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-F7

<400> 43771

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gggtgggcgt gacctgactg acagcctgat gaatatcctc accgagagag gttactcctt 120

caccaccacg ggcgaacggg aaatcgtacg ggacatcaag gaaaagcttg catacgtggc 180

tcttgactat gatcaggagc tggagaacgc caagagcatc tcatctgtgg agaaaagcta 240

ctagcttgct gatggccagg tgaccaccat tggggcggag aggtttcgat gcccttaggt 300

gcttcttcaa gccttctttc attggtatgg aaac 334

<210> 43772

<211> 238

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-013-Q1-K1-G1

<400> 43772

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cccggtagct taccgagtag tacggtggnt cgatgtcgcc gctgtgcgcc cgggtgatga 180

accaggtgac gcgcgagacc aggcgctttg ttgacaagta cgacgtcacg ctcgacgt 238

<210> 43773

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-G10

<400> 43773

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tacaacacca tcggggggaa ctgactcctt acggggcgta gtccatatca actgttatct 120

gggctcttcc tttcccgccg catgtgttgg cgatcgtact gataatactg aaggctgtca 180

gaagtttttt ttatacctta catggttagc ctttctgtac aaaggtgaac tctatgtctg 240

gtgtttgttg gcatccatgc cttatatttc gaggtacatc aagttgacaa aatgttcgga 300
 gggatagggg gaaaacgctg cacgcgccat attttgtgga gtgtgaaaac agagcctgta 360
 cagcatattc accac 375

<210> 43774
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-G11

<400> 43774

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 ggctggcaga agtttttttt cttccttcca tggttagcct ttctgtacaa aggtgaactc 180
 tatgtcgggt gtttgttggc atccaatcct tattttgcga ggtacatcaa agtttgacaa 240
 aatgttcgga gggatagggg gaaaacgctg caagcgccat atttttttga gtgtgaaaac 300
 agagcctgta cagtatattc accacccat t 331

<210> 43775
 <211> 115
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-G12

<400> 43775

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<210> 43776
 <211> 414
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-013-Q1-K1-H1

<400> 43776

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cagcgcattg ctctcgatcg ctgcagcgca tccagtccaa acacacaccg gtcgaatcga 120
gcaatggccg cggggctgca ggtgttcgga cagccggctt ccaccgacgt cgccagggtg 180
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aagtcgcaca agctccccga gttcatcaag ctgagggatc ctaccgggca ggtgactttc 300
aagcacggtg acaagacaat cgttgattcc aagactatct gccggtacct gtgcacgcag 360
ttcccggacg acgggtacaa gaagctgtac ggcacggggg cgctggagcg ggcg 414

<210> 43777
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-H2

<400> 43777

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tcagccagtc tctcacaaca caatgccggc gaccaccaag ccgatcttgc tccaaggggc 180
gtgggcagca gcgccactcc tactactgct gctgctcggt ctgcacggga gaggaggcca 240
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gtgggaggcg accacggagc ggaggtacat cagctactac gccctgcggg gcgacatggt 360
gccgtgctcc aagaccggcg tgacctacta caactgccgg atctt 405

<210> 43778
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-H3

<400> 43778

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cgcagagaga gaatcgccat ggcactctga acaagaaaag aaagagctag agagatctca 120
ggcagccagt ctctgacaac acaaggctgg ggaccaccaa gctcgatcct tgcttccaag 180

ggcgggggca gtagctccac tactactact gctggtgcta gttctgcacg ggagacgag 240
tc 242

<210> 43779
<211> 310
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-013-Q1-K1-H5

<400> 43779

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aaccctcgaa ccctaaggct tacgcccctc atgggggacg ctgatgcggc tctgccaacg 120
ccgccttcgg aggtagtagc ccccgaagag catcccgtgg gcgccgaatc caccgtcgcc 180
gcgcccggccg aagtcaataa caagcggaag ctagaggagg tcacctccga ctcgagggtg 240
aaaggcacca gcgaggacgc caagcgcccg cccgtggacg gcgagcccta ctccccaaca 300
cgggttgagc 310

<210> 43780
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-014-Q1-K1-A1

<400> 43780

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tgctccgggt acagcttacg tcgcggctct gttccgaccg cccttcccag agcgcgcgcg 180
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acttctgccg cggatagggt acagggaggc caccactcat atccagctct ggctccttgg 300
tgccctgata tctcactcag agttcgatgt tgtggatttc cttatttgtg agatcgagga 360
caccattctg gatggtctgc gtgcacgacg acagctgcc a tatgctcact atctatgtca 420
catttttgc cagctgattc gacctncaca g 451

<210> 43781
 <211> 320
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-014-Q1-K1-A10

 <400> 43781

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 acgatgaagg ggggagagag gaagggggac gggagtagga cggagatgat taatgcttcg 120
 gaagagcgtg tgtaaacgga cgataagacc gggactgaaa atgatagagg atgcgtgcgg 180
 ctctacattc ctcttctgca cagaatgagt cctgattctc atttgtccaa tggtttcagt 240
 cttttgcttt atcaggttta ctatgctgta ttttgcatac actatcttta ctgatatctt 300
 cttattctca gcacctccaa 320

<210> 43782
 <211> 203
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-014-Q1-K1-A11

 <400> 43782

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 cctgagcctg tacgaagttc tgagggcagg catggggact gtcacagatg atgttgagga 180
 agacactggc catttgctg gaa 203

<210> 43783
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-014-Q1-K1-A12

 <400> 43783

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tccgcacagc aaagcgaaaag cagcaagaag caaagcaatg gagaaccctg cgagtgtgct 180
 agttctacca ccgcacttca ccaaactcac cttcggaac ctgtacatac gccgggcccgg 240
 gccgggcagc acggagataa cctaggaggg caggcgcgac ctgtacagga tatacgtgag 300
 taactttccc gtctacgact gccgcgggcc ctactccagc cttgtggacc gcgtgcaggg 360
 gatcaccagc gaaatcgga acgcgcacca actgttcctc antgtgatcg acaccgacag 420
 gctcaagggc ttcacgctcg taaccaatgg cgcgataa 458

<210> 43784

<211> 217

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-D4

<400> 43784

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 aaatatggaa ccaggtatgg cgctagcttg cgtaagcaaa tcaagaatat ggaggtatct 180
 catcattcca agtacttttg cgagttctgt gggaagt 217

<210> 43785

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-014-Q1-K1-A3

<400> 43785

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 actccgcgtc cggattccga atcgaaccac ccagccaac tcctgtcaca ggctcgtctg 180
 aagaccaca acgtgcctac ccaaccagga tcttccattc cgggcctcta gttaaccaga 240
 gccagccatc aaaggctgga ggccggcaaaa atggtgaacc tcaggtcctt ggtgttgcca 300
 atcacctgt ggttttgttg acaagatcag gtccccgggc agacggtagt ggccagacaa 360
 tggctcgtca agctgaagca tttgctcatg ggccggaggct gtcggagtcc atcaatgagc 420

atttcagtaa cagtgggaag tacgac

447

<210> 43786

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-H2

<400> 43786

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gcgtccatgg atccggcggc cgagccggcg gcgtggccgc cgtggacgtc gctcctgctg 120

cgggcgctga gccggcggcg gacctgggtg gcgtctttcc tcgccgtcta cgccgggctg 180

ctctcgctct cctggtcctt gtcgggtcc gtcgccgcgc ccgccatgct cgtcacctgg 240

accacc 246

<210> 43787

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-H5

<400> 43787

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gacgacaccg acaaggtcgt ctacagcgtt aaggccgagg tagagaagac ggggagaatg 120

gagccggttt cgccggcgct atctgacttg gtcggcccga agctgacgaa gatctcgcca 180

gttgcaacca agaggttttc gtaccttgag aatctgggtg gaacaagaag ccgcatagct 240

agacactagc tgctgtaagt aggggttttag tgggggtaga tggatcatgc cgtcgcaaag 300

ccttcggaag aaactttgta catagcatag atgccactg cgaacgtttg tctaacgata 360

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<210> 43788

<211> 375

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-012-Q1-K1-H7

<400> 43788

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cgatcccttc tctaagaagg actggtatga catcaaggcc ccatcgggtct tcagtgtgcg 180
caacattggg aagactctcg tgtccaggac acagggtagc aggattgcct ctgatggtct 240
gaagcacaga gtctttgagg tttgtctagc tgatcttcag ggtgacgagg atcangctta 300
caggaaaatt caggctccgg ctgaagatgt gcaaggggaag aatgtgctca caaacttctg 360
gggcatgaaa tttta 375

<210> 43789

<211> 77

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-012-Q1-K1-H8

<400> 43789

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<210> 43790

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-013-Q1-K1-A1

<400> 43790

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agatgtctga tagccatgag actgacagga acattgagat ttggaaaatt aagaaactga 180
tcaaggcatt ggaatcagcc agaggcaatg gcacaagcat gatctctctg atcatgcctc 240
cacgtgatca ggttgctcga gtggctaaga tgtaggtga tgaatatggg actgcttoga 300

acatcaagag tagagttaat cgtcaatctg tgttggtctgc catcacctca gctcagcaaa 360
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<210> 43791
 <211> 70
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-A12

<400> 43791

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 ttatttttttt 70

<210> 43792
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-A2

<400> 43792

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 tcaagatgtc tgatagccat gagactgaca ggaacattga gatttgga aa attaagaaac 180
 tgatcaaggc attggaatca gccagaggca atggcacaag catgatctct ctgatcatgc 240
 ctccacgtga tcaggttgct cgagtggcta agatgttagg tgatgaatat ggtactgctt 300
 cgaacatcaa gagtagagct aatcgtcaat ctgggggtggc tgccatcacc tcaactcagc 360
 agaggttgaa gctctacaac a 381

<210> 43793
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-A5

<400> 43793

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 cgggagtgcg ctctgaagg tggcgctgct cggcggcgcg gggctctacg ccgtcctcaa 180
 cagctttctac aacgtcgagg gggacaccg cgccatcggt ttcaaccgcc tcgaggggat 240
 caaggacaag gtgtaccccg aaggaactca cctgatgatc ccgtggatcg aaaggccgat 300
 catttacgac gttcgtgccc gacccaacct tgttgagagc accttctgaa gccggtacct 360
 tcaaattggtg agaattgggtc ttcgtgtcct tac 393

<210> 43794
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-B10

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 acaaagggtta ttttcagggg gcaaagctga tggttataat ttttttccat agttggcaag 180
 tgtattttca atggatgatg cttgaacca aatggatgac agcagatgtg tgatatgacg 240
 tgcgctcagc ttctccaaca cactgattct tgaatgcatt aatcatagtg cacaagcagt 300
 tattcatgat aagaaatctt ttgctcatat tcatataatg tgctctcaaa gacattga 358

<210> 43795
 <211> 297
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-B3

<400> 43795
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 ttccactggt tcgaacaagt gccgtcgccg cggaaccac cgtcatcggt ccaccaccgc 180
 ggcgggcaca acctcgagct gcagctcatg ccgccgtcct gcagcggcgc gggcggtgac 240
 gcgccaccac gtactccggc gggtcctca cagagccacg ccggcgccat gggcatg 297

<210> 43796
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-013-Q1-K1-B8

 <400> 43796

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gaaaaaaaaa aacacaaaaa agaaaaaaaaa aaaagggaaa aacaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagaaa aaaaaaaaaa 180
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacaa 240
caaaaaaaaaa aaaaaaaaaa gaaataataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aataaaaaaa aaattaaaaa agaaacaata aaaaaaagaa aaacaaaaa aaaaagaaga 360
aaaaaaaaa gtaaaaaaaaa aaaaaagaa 389
  
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<210> 43797
 <211> 339
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 43797

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cgcaatgttc agcgggaaaa gaaatccaaa cgacaaccac ttctctcgca agaagtacta 180
agctctgata tgctgtcttc tttttatgca cgctgtggt accgtagtct gtaatcccag 240
catgtacgta atggttgaag caaagtgcct tttttcttgt tagtggcgta tactcatcat 300
attcatatac acagatatat ataagcatgt tagctatgc 339
  
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<210> 43798
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-C10

<400> 43798

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tggattggat tgtagcctgc gccaccatat tttaacttca aatccgttga gatatgcttc 180
tttttcgggt ctctttgttt ccttctcctt tttgctggag ccactgactt tgatgtctca 240
ccaccatttc ttcattgcat tcccttttct ctcaacttga ggcatacctt tgtaacacaag 300
atctgcctac gtgtttcagg ttcttgattc tgtttatatg cagtcggaag ctttatgcgg 360
ttaggccag ctgatttggt gttgtgttgt ttcttgatca gctgatctaa accaggcgca 420
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<210> 43799

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-013-Q1-K1-C11

<400> 43799

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accgctggac cttcgatgat gtccaggtga acgacatctc gctgaacgac tacctcgctg 180
tgaacgcgac gaagcacgcg atgtacctgc cgacacaccg ggggcgctac tccaagaagc 240
ggttccgcaa ggcgcagtgc ccgatcggtg agcgccctac aaactccctc atgatgcacg 300
ggcgcaacaa cggcaagaag gtcattggctg tccgcatcat caagcatacc ctggagatca 360
ttcacctgct caccgatgcc aaccccatcc aggtcgctgt cgacgcgac atcaacagtg 420
gaccccgatg ggatg 435

<210> 43800

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-C5

<400> 43800

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tttatctgga ctggtgggaa gaaattggga acctctcgtc taccaaattc tgctccattc 120

ttaatttgag ggcaaaagac taaccttatg ctctgcggtc tctgcacgtg tgtacctcat 180

gtctgatact tctggcctct ctcattgtcc ttaccttgga acaacaactt tctgttcctt 240

ggcttctctg ctcatcttgg taattaaggc atctgtttat agtacagccc aagacattgg 300

gcctgaactt ctcccgctcat taccagatca caaggccaat ctcaagaatc tattgggaat 360

gc 362

<210> 43801

<211> 437

<212> DNA

<213> Zea mays

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<400> 43801

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ggcattatgg caacttctgt gggttattcc atcctcttct actcagaaag tgtcacccaa 180

cccttcaggc cttaaaaagt tgtcagtga gaatgtcaag actagagcta gggttgggtt 240

atctgaactt ctacacagtg tgctagactg gaacagccga ctaccattca ctgctgcaag 300

tgatttctat tctcaagaag ctacgagcga aaattttgtg tctcatgcaa tacttggtaa 360

tactcgagca tcagagatca taaaacttgc tccttttttg gctccattta ccattcgagt 420

caaaatattc actttcc 437

<210> 43802

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-H10

<400> 43802

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 acccctccaa tcccctacca tcgcccgcatt gcccgcccca atcgagctag ggctcgccaa 180
 tttctggccg agctcactca aatttcggcc actcttttct ggtgaatcct ttggttttatc 240
 ctgaggggat attttgattt ctgcagcgca ctatgggtag cagaacggaa gaggacacga 300
 acgacaatat catccgccgg ctcatgaagt taccgtccaa ctctaagtgc attaattgca 360
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<210> 43803

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-D2

<400> 43803

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 ccagacggta aatgataccc gtgtcttgtt tggaggcgga tggcctgaga tggatgatggc 240
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 tttctcacat gctctgcaag ccatcccaac aatcatagct gacaatgctg gtttggatag 360
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<210> 43804

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-013-Q1-K1-D3

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 ctggagcagt ggagaccatc cctggcccaa catcgtccca caagaagcgg cggtggcgaa 300
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<210> 43805

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-D5

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 ggcatgaact aatgctggga aacactttca tttccaatat agagtcaacc ccaccggaag 240
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<210> 43806

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-D7

<400> 43806

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<210> 43807

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-E1

<400> 43807

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 ccgactgata tgttccccgc cgaatggggg gttggtgcca tcttcggcga agagtgccag 180
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<210> 43808
 <211> 440
 <212> DNA
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 <223> Clone ID: LIB3076-012-Q1-K1-E11
 <400> 43808

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 atgggattgg attggacggt 440

<210> 43809
 <211> 302
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-012-Q1-K1-E2
 <400> 43809

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 actcaggtga tgtacaatgt actatcatca cttcaataga taaataaaaa aacttctggg 300
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<210> 43810
 <211> 356
 <212> DNA
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<210> 43811
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-012-Q1-K1-E5
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 cccaacaagg ctaagagggc ttccagcgtt ttcttcgtgg tcatggagga atttcgcaag 300
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421

<210> 43812
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-012-Q1-K1-E6

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 tcgcatcatg actagattca acctcaagat gtgcagcacg gatttcaata gccgtgagta 180
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 ttgtatggac cataaaccag agtgggtgat ctataatgaa tatgtcttga ccaccaggaa 360
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 <211> 312
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-012-Q1-K1-F10

 <400> 43813

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 cagtccccac ctgagggccg tctttcatga tgccactaat gtttctgacc acctgatgct 240
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<210> 43814
 <211> 161

<212> DNA
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<223> Clone ID: LIB3076-012-Q1-K1-F11

<400> 43814

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 attaccgcgcg ccttcgcgca tctgtgcctt aaagccctgc c 161

<210> 43815
 <211> 142
 <212> DNA
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<223> Clone ID: LIB3076-012-Q1-K1-F12

<400> 43815

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 cctctggatc atgcacgagt ac 142

<210> 43816
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-F4

<400> 43816

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 gggcttgcat ttgtgctgat aggatttttc accactcaat gtgacccctga tgtattctgg 240
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 ccttcttgag cgcaaccagt taatatagtg gggtctacag tggtcgcaaa aagggtgaagc 360
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<210> 43817
 <211> 201
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-012-Q1-K1-F5

 <400> 43817

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 attttatttg tgatgtgcac agcaagatat tggatacttt gggttcttac atttatttga 180
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<210> 43818
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-012-Q1-K1-F6

 <400> 43818

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 gagtgcggaa ggctaccatt ggtgggtgtaa ccatagatgg gcttcttgca gcagcagctg 180
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<210> 43819
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-012-Q1-K1-F8

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 gatggctacc attggtggag taacataga ttggcttatt gcatcaccag ctggattctt 180

gattgggctt gcatttgtgc tgataatgat tttcaccact caatgtgagc ctgatgtatt 240
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 <211> 233
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-G10

<400> 43820

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 tcagtaccta atcttgctg tcaaccctaa ttgtctataa ttgcaacatt tctacatacg 180
 accctttcac atgtactaac ccttaatctg tctaattcctt gcattacctc tat 233

<210> 43821
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-G4

<400> 43821

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 atttataagt tggaagcaca tgatcggttc aaaagaaatg cagtagggag tgcactgtac 180
 attcatccat gtctttcaga actttcagag gttaatgctg agcatagggc taacaccttt 240
 agagatgatt taattgatag tctgggagaa ttctatcact gtgagaaaat ggcttaaagg 300
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 caagcaatat atatcttcca tgattttctt tgaaag 396

<210> 43822
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-D3

<400> 43822

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ggttcctgag agggttctgt atgaaattct tattcaggta ggtcggggtg aaaactacac 180

ataccctcgt gacaaggaaa ctagccgacc aaaaggctat gcttttgctg agtatgaaac 240

ataggagatt gcccaatatg cgtgtaagct attttctggg cttggtegcac ttcataataa 300

aacgcctaaa tttgcagact ctgggcaaga caaacctta ttaaattggca atattcct 358

<210> 43823

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-G5

<400> 43823

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cgccatcgac acgctgggga gcgtcgctgg ctgggtgctg cgcggtaca cgcaggtgat 120

aaacagcata tggcgctagt acagttcaac tgtgccttgg ttcctcaact cggtgaaaag 180

cctcggtgc tatcgctatc acctgcgatc gctaaggcta cc 222

<210> 43824

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-G6

<400> 43824

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ggccagcgag tgaggcgctg gcgcacgcag cggcggcggc cagggcccag gcccacatggg 120

atcggcgtgc gcgcgtggcg gtgtagtctc tcgcgcgcgt acatggcatt atgacacggg 180

atcttgctgt tcagtacgt acgggtactg gcgtgtctct gtgtgtgtg 229

<210> 43825

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-G8

<400> 43825

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tgttccgcga gggcgtcaag tacggcgcgg gcatcggccc cgggtgtctac gacatccact 180
ccccaggat cccgtcggct gaggagatcg ccgaccgcat cgacaagatg ctggcgggtgc 240
tggacaccaa catcctctgg gtg 263

<210> 43826

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-A12

<400> 43826

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ccaccactac gatcgatctc ttcatcgact agagcctcct cctattccta aatactcttg 180
tgtaccccta caagcacaca atctttctat aacttgacct tctcttctg acctgctcca 240
tcaacacctc cacaccatca actatcccaa catccactct cctctaccta ctctccaact 300
ctaaaactcc tatttttcga aatcttctac taccacaat ctgtcaccac aagatctgaa 360
tactaatcca tatttttctt ccatcaaatc aatcgtctca catatcc 407

<210> 43827

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-A7

<400> 43827

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ttaccgtcta gtacgactgt gggagggagg aagaggcgag gggaagatgc agatcttcgt 120

gaagaccctg acggggaaga ccatcaccct cgagggtggag agcatcgaca ccgtcgacaa 180
 cgtcaaggcc aaaatccagg acaaggaacg gattcccca gatcgacagc tactgatatt 240
 cgctggcatg cagctggggg atggacgcac gctggtgtgc tacaacatcc aaaaagaggc 300
 aactcttcat ttggacctaa agcttatggg tggaaccatg attgatgtca aaactctcac 360
 tggg 364

<210> 43828
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-A8

<400> 43828

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 tgcctggtgg gaagattgga atggtcaaga agataaggcc aggggtgaag ctgttcctgt 180
 atgattttga cctgaagctt ttgtatggtg tgtacaaggc agcatcacat ggggggctaa 240
 acctgtcca aggagcattt agtgggaagt tccctgcaca ggttaagttt aagattgata 300
 aagattgccg ttctctccct gaaagtagtc ttaagcaagc cattagggaa aattacagtg 360
 caaagagcaa atttgacca gaactcacca taaaacaggt ccaaaggta cttttgct 418

<210> 43829
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-A9

<400> 43829

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 ctacccttac cacctcccat cataacgccg ccaccactac gatcgaccat tcctccgact 180
 agagccgtca tcgtcttctc aatacgatta tgtaccgat caagcatcga agctttctat 240
 aactggacct cttgctagct acctttgtct atcatcactt gcactccatt tactatgcca 300

acataactctc ccttctgcaa gtactcgacc tctataactc aaatTTTTTg aaatcgTTta 360
ctagcctcta gcattcacca tatgatctca attctaattc ta 402

<210> 43830
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-B1

<400> 43830

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catcacctc gaggtggaga gcagcgacac cgtcgacaac gtcaaggcca aaatccagga 180
caaggaaggg attccccag atcaacagcg actgatattc gctggcaagc agctggagga 240
tggacgcacg ctggctgact acaacatcca aaaggagtca actcttcatt tggtcctcag 300
gcttaggggt ggaaccatga tcaagtcaaa actc 334

<210> 43831
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-012-Q1-K1-B12

<400> 43831

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acaattgacg atggacctct gggcgagggtg ttcaagggca agagttgcca gtcagcatcc 180
gcggacatct taactgacca ttggacttcg actcgtgact tgcgttctcc aaccggaatc 240
ctacaaatgt ctagcagcaa cacagtgcc aacagagaatc acacgagtaa cagtagctat 300
ctcatggcga ggattgcgaa ttctcagacc gttccaacac tccactgagt gttcatcagg 360
ctggtctttg ttgggaccac aaaataactg aagccatgtt gatgtcctga gnttgctgat 420
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<210> 43832
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-012-Q1-K1-B2

 <400> 43832

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 ttctacatca aggctatgat cgaagcggag cgagccaagg gaaccgctgc agactcaagt 180
 gcataaccga gatagcacct tccggcccca cccacccctt gacttgggtg tgctgcaaata 240
 aagctcttca ctgcttttgt agtcagagag acatgtcgat tttttacgtc ataattgtta 300
 ccacacattc acttcttttt ttttgtcaat tggacaattt cggcgccctt aaaaaaaaaa 360
 atttggcc 368

<210> 43833
 <211> 242
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-012-Q1-K1-B5

 <400> 43833

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 cgatctggcc tttttaatcc gcggatcccg tacaagatgc ttcccccttc gtcctcaag 180
 accggccagg ggcacccaat gtcgggggag ctgaagaatg gtgagacgta caacgggcat 240
 ct 242

<210> 43834
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-012-Q1-K1-B8

 <400> 43834

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cagattatga tgatagctca gatcagtatg cttggctaaa ggctgatctt gccaagggttg 120
atagaaagag gacaccctgg ctcatgtgtg tgttgacagt accatggtac aatagcaatt 180
gggctcatca ggggtgaaggc gacagtatga tggcttcaat ggagcctttg ctggacgctg 240
ctcatgtgga tatgggaata gcaggctatg tccatgctta tgaacgtgcg gagcgagtct 300
acaattccag acctgacccct tgtggcgctg gccacataac ta 342

<210> 43835
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-C11

<400> 43835

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gccgtgctgg cgctggcgcg cgcgacctg acgcacgaca actgctgtaa gaacaagaag 180
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gtgtgctggt ggacggggcg cctgcgcgcg cccgacgccc cccaggtgga gttccacgtc 360
ggcgctgacg ggggtcctt ctacctggcc cccaacgcgc agccggggcca gcgcgtcccc 420
gtctccgtca ccccgacgg ctc 443

<210> 43836
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-C5

<400> 43836

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caacgaggtg cccaagaccg cggagaactt ccgcgcgctg tgcacgggagc agaagggcgt 180
gggcaagtcc gggaagccgc tccactacaa gggctccacc ttccaccgcg tcattcccga 240

gttcatgtgc c

251

<210> 43837

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-C6

<400> 43837

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gtgcggtcgg agggccacgg cctggaggac ttctcaagca gcgacgcgac gccggagatg 120

cagaccttct tcaagcccgga ggccgcggcg ctcccgaggg ccctggacgc gtcctgcatg 180

cccgcgggca ccatggccgg gaagccggag gccacgtcta tcccgaccac caccaccggc 240

acca 244

<210> 43838

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-C7

<400> 43838

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tgaagtatat cttgaaagat ttctccagat tctaacataa tcacatgcat gcctactaca 120

aatggagggtg gtacaccgtg gttgtttaca agagagaaga tgattgagca tttgtgtgta 180

caactgtgca ttataaaatt cctcagactt tgtgaagctt taacaaaaag aattcgggtac 240

atgcatatag gtattgggaa ttaccaagca gcataagcca caagcaccca tctagcaacg 300

ttaacgatca agaaaaaac agctggtaga tctatattaca tacaattgcg catgctagaa 360

ctattgattc tctcattatt aatcgggc 388

<210> 43839

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-C9

<400> 43839

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atgatctgggt tcattaagga gcattcatatc atatttgctt attttgatta tataatgcat 180

tcagtgccttg aaaattatat gacataagaa tctaattggtg gttgtgatga cagacatgca 240

tttcatcata attttgttga tgaaatatca aggtcttaag gttgacctgt tgtattttgt 300

ggtaatgatg tgaatattaa cctacaact attatgttgc ggatcatcatt aaatttctta 360

gctcttatac agtattaacc ttac 384

<210> 43840

<211> 253

<212> DNA

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<223> Clone ID: LIB3076-012-Q1-K1-D1

<400> 43840

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gtgcggacga taagtacata tgccagttct ctgagaaatc aaacaatttt tggggaagta 180

ggcatgaact aatgctggga aacactttca ttttcaataa agagtcaacc ccaccgcaag 240

gggaggtgcc ccc 253

<210> 43841

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-D12

<400> 43841

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tgatgacaaa tctgatactc ttgcatgcaa acggcctgga ttacagaaag aaggatcaaa 120

ggttggtctat ggtgttccaa aacatggaaa gaagaagttt atggaagtaa gcaaacatta 180

ttacgcaggc cagtttgaca agatttctga gggtaatgca tctaacagat ttgtgaaaca 240

tctggtgacg caattgccaa gggaacgtga aaatgattcc aaagttgatc ctattagagg 300
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agctagcagt gtcctcggaa atgattcctt ccccatgcat gttcagaata cttgtgtttc 420
tcaaaggagt tttggttttg cggaagtgc gacaag 456

<210> 43842
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-D2

<400> 43842

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ggaagtaggc atgaactaat gctgggaaac actttgattt gcaataagga gtcaacccca 240
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acccaata 309

<210> 43843
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-A11

<400> 43843

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ttcttattat tagtctactt ctctctctct ctctctctct ctgaaagaac aaggaactag 300
atgtctcgtc ttgtgcctcc tactatacct ttacgtgttg ttcttccttt tgcgtccat 360
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ctacttcagt tgtccgcata tctgatcata a

451

<210> 43844

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-C9

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ccatggaccg caagagcaag tacgccaagg gcgcgcgag ctgggcagcc gcgttcatgg 180
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ccggtgaccg ccgggaattc gaacaaccgg acgaacctgg agagcgacgg gcactccaag 360
gcccccgag atgctgtacg cgtc 385

<210> 43845

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-D4

<400> 43845

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gggggttaggg tttgcgggga tgagggtgca cggcgagggtg tcggacgatg aggcggccgt 180
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cctctctgaa caaggccat tggacatatt tttgcacaag cttactat 408

<210> 43846

<211> 378

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-011-Q1-K1-E1

 <400> 43846

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 atattgctta catatctgga acctctgaac agaggcattc ggctgagaat ttgatcaaag 240
 ctttcataat ggctacctaa gattccttct gtgggtctgag aacaccattt catcaatttg 300
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<210> 43847
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-011-Q1-K1-E6

 <400> 43847

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 ttctacctgt gtagccatgc tggcattcag ggaacaagcc gccctgctca ttaccatgct 180
 ctgtgggacg agaacaagtt cacagctgat gagctgcaga ctctgacaaa caacctatgc 240
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 ttgggggtct ttcgagctcg cttctacatg gagccagata cttttgacag tgggcctttt 360
 ttaatg 366

<210> 43848
 <211> 459
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-011-Q1-K1-F10

 <400> 43848

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caattgtcga cctcttttat gtcattccaga tgatgataaa gttcaggact gcatatatta 180
atccaagctc aaacttaggg gtttttggtc gaggagatct catcacagat cctaaggaaa 240
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<210> 43849

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-F11

<400> 43849

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ttggttcaga aactttgaaa gggttctttt atatagcccc ctttgaaagg ggggctggag 180
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acaacttgta gcatttccaa acagtccagg cagaggtata caaggtatac aactgcttat 300
ttcatcacac gaccgcatat atgtcttgta gtatattagg tgtaatttag aatgtcttgt 360
ggcaaaggca attttttaag tggcctaagg caaagctcac atttgatga caaatttggc 420
tttatttttt tgcagtaatc tt 442

<210> 43850

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-F7

<400> 43850

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gcgtcggcgc cgggtgagggc ggcggtcgggt acatgggata cgggctagaa cccggcgggtg 120
 gggaggctgc gggagctctt cacaggcgac gcggtagatg ggtgggagaa gtcctgggag 180
 tttggtgcga ccccatggga tttgtgaaag ccaacacctg tcattgaaca tcttgctaga 240
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<210> 43851
 <211> 239
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-G2

<400> 43851

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 ccaccatggg agatgagacc tcaacctcgg ttgctcccca ggaacaggaa ttcactgtgc 180
 aagctgggag tgtcaagcaa cagcttttcg ggctggctcct tatgtccctt cgggctact 239

<210> 43852
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-G4

<400> 43852

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 gctgtggaga tgtggaactc attggttata gtgtgcttca atcatgggtc atggcgatgc 180
 tgatggaact gatttgttac caaggtttaa gtgttcgcta ccgttggacg gcctgactgg 240
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 tttttgacgg tactggacat attggtcgac aatttatttc ttggcag 347

<210> 43853
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-G7

<400> 43853

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ggtccgagtc ctgctttgat ggcgaccgac gtgactgaga ctcccgcgcc gttggtggat 120
gcggcccccag aggcgcccgc cgacgccccg gcggcgccctg ctgccgacgc gaagccggcc 180
atggccaaga aggccaccgc gccgataaag cgcgccagcc cgaccaccc gtcgtacgcc 240
gagatgggtct ctgaggcgat cacgttgctc aaggagagga cgggggtccag cagctacgcg 300
attgccaagt ttcgtggagg acaagctcaa ggccaa 336

<210> 43854

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-G9

<400> 43854

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tgatgagaaa accatacagc gcttgactgg ggcagacaaa aagaagctaa gaagaactgc 120
caagggaagg tgttcacaag cttatgatgc tgaccttgat gccatccttc cttccaaggg 180
tgagataaca gttgctaagc acccgaacca tgttcttgta tatggcatac aaggagagta 240
tccaatgatt cttaacactg acgcaagagg tcatgaactg gttcctacag attatgccgc 300
tttgaagggg accccatatg ttgccagctt ttacgcttaa agg 343

<210> 43855

<211> 471

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-011-Q1-K1-H11

<400> 43855

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gtcgcgatgg accagggcca cctcaaggac agcctcctcg tcccgtctc ccgcgccgcc 120

gcgacgaatg gccccaccca ccgcccgcgc acgctcgcgc cggaactgg cgccggaggc 180
ccatgtggcg gagccggcgg cgtgtccatc gacgtcaacg gcctgaagcg gcgtggcggc 240
gggaggcgct cgtgggtgcg cgtggacgcg gcgacgggcg ccgccggaggc cgtcgaggtc 300
gccaaagccgg cgttgatgcg gcggctggac ctgcccgcgc gggaccttcg tctnctcgac 360
ccccctcttcg tctaccgctc cgccatcctc ggccgcgagc gcgccgtcgt ctgcaacctc 420
gagcacctgc ggtgcatcat caccgccgat gaagcgctcg ttctgcgcga a 471

<210> 43856

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-H12

<400> 43856

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gctttgatgg accctcagaa aatgaatcca acattctttt tgttgattgt cttcctactg 120
attgcacaag gagagaagta gtcattttgt ttcgttgttt tcctggcttc aaggacatca 180
gagtagtgca caaggaaccc agacgtagtg gtgacaaggc ctatgtcctg tgctttgtgg 240
agtttgagaa cgcgaaattc gcacgcactc ccatgcaagc tttacaaggg taccgcttcg 300
atgaccggaa gcctgacgac cgggtgtctcg agatccattt cgcaagggtc ccgttcgc 358

<210> 43857

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-H8

<400> 43857

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tcagtttcgg tccttcagca gcctgccatc atcatctcag ccactgaag aacaacaaga 120
agctgcagat aacctactga agatgttaga cctagcacca cctggaagag aggtcctcaa 180
gcctgagttt acgccaaatc ccatcttgga gagatgttac agttaccttg atctcaagtc 240
aaagcagcca gatgcaaattg tcccaccggt tgaaagatct ctaaggggga taaccgaacc 300

ctgtcctgat gtggttgccc aacaaaca

328

<210> 43858

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-H9

<400> 43858

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aaaaaaaaaga aaaaagaaga aaagagaaaa aaaaaaagaa aagaaaaaaa gaagaaaaaa 120

agaaagaaga aaagaaagaa ggaaaaaaa aaagaagaaa aaaaaaaaaa aaaaaaaaaa 180

agaaaaaaa agaaaaaaa aaaaagaaaa aaaaaaaaaa aaaaagaaaa aaaaaaaaaa 240

aaaaagaaga aagaaaaaag aaagaaaaaa aagaaaaaaa aaagaaagag aagagaac 298

<210> 43859

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-012-Q1-K1-A10

<400> 43859

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gtggttacca cggacatgga tggtaagta gaaccactt gactttgcta tgtccacatt 120

tatcgtatcg gctctacatt tacgtctgta ttatcgcttt tatgattgga tgatgatgct 180

attcttgata gatgttacac gattttggag gcgcttagcc tccctttgat attcattctt 240

gttaggagat actgcaatac attgctatca tatgtgttat atactgtgat tacaatgcaa 300

cagtctaggt tgtatcaaac aaatacttat aatgctggcc aactctaaag cattgtgaag 360

tgt 363

<210> 43860

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-C8

<400> 43860

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tcaaccatgg cggactccaa ggccacctcg gcggtcaccc tccgcactcg caagtcatg 120

accaaccgcc tgctggcccc caaacaattt gtgcttgagg ttatccaccc cggccgcgcc 180

aacgtctcca aggcggaggt gaaggagagg cttgccaaaga tgtacgaggt gaaggacccc 240

aacaccatct tcgtcttcaa gttccgcacc cacttcggtg gaggcaagtc cactggcttc 300

ggcctcatct acgataacct cgagtctgcc aagaagttcg agcccaaata accggccttt 360

tccatcagga atggtcttgc tactaatggt gagaagtccc gcaagcaaata gaaagagcgg 420

aagaacaggg ccaagaaga 439

<210> 43861

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-H4

<400> 43861

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ttactctcca gatacgagga gtacggcttc accatggata acgtcaagtc cctcctcatg 180

aacgtgttcc aggcattccat cgagacctca tatctggtgc tggagtccgc catggcctag 240

ctcatgaacc acaagcgcgt catgaagaac ctgcaaacgt gaagtactgt cgtacggagc 300

gcaaaacaag ctggacatta tcacggagga ccacctgag 339

<210> 43862

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-H6

<400> 43862

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aagaatctga acggcaacag ggagaatgaa tcagacgact tcatttacat attactctac 120

agataactaag agtactgctt caccatagat aacgttaagt gccttctcat gaacttggtc 180
 tatgcaacca tcgagacctc atatctggtg ctggaattcg ccatggccga gcttatgaac 240
 cacaggaccg tcatgaagaa actgcaagct gaagtacagg cgtactgagc ttataacaag 300
 ctggacatga tcagtgagga ctaccttagc 330

<210> 43863
 <211> 231
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-010-Q1-K1-H8
 <400> 43863

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 acagctctgg ttacatgtga ggttgtaaaa tcagtatgga attatggatg agtgtaccaa 120
 ccttaatgta cccgttcaag attatggagg tatctttgcg taaaaataat aatgaacgag 180
 ttcaaagcaa acatatagac cttataatat ggtgctggag tccgccatgg c 231

<210> 43864
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-011-Q1-K1-A10
 <400> 43864

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 gaacatctac aaggaacaag gtgaggataa ctgacaggat gtgggagagg ctgctgtctt 120
 caaccaacca accgagtttc ctgagccaga aggacatcga cgcggccaga gaagccgaca 180
 aggcgggccaa ccgcatgaag agcagagagg acgcaagaa gcaatctaca ccagtgttgg 240
 caaatggtga gaaatagtgt gcttttgacg gttctttggt gtatgcagta gctgctgcaa 300
 gctggctgag atcagtaggc caaaactgag aggtcgatga gttttacttc catttgcatg 360
 cgaacagaat tcacgtaata aaagcttcat agtgtgtatt tgcgttagta aacatatact 420
 ggtgcgctgc 430

<210> 43865

<211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-A11

<400> 43865

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 ggtcagcctt ggttttgcag agctcattca gtggcctctg ctgaaaagtg ttcaatggcg 180
 tcaggagcca ccttaagctg ggtaaaaacc ccatttgaca cccgaagatt tcatgaccta 240
 tctaatactaa gtttccgctg ccgaaaccct tttggatcaa ttcagccctg gtggctgcaa 300
 actgatcaag actgatacct aatcaacgat cacgtggctg ctgattattc agactcaatg 360
 ccagattca 369

<210> 43866
 <211> 468
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-A12

<400> 43866

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 gcggggacct tcggggcggt cctcttctgg cagtccatgg acaggggtcca cgtctggatc 120
 gcccttcacc aggacgagaa gaaagaaagg atggaaaggg agctggagat aaagagaatg 180
 caggcagagt tactggccca agctaaagag aatgaatcat gattgtcatt tgtccaatgg 240
 tttcaggcag ttcctttatc gtatttcttc tgctgtatct tccatgcaat atcttgactg 300
 atgtatgctc atgtcagca cctccaataa agcgagacat gctatagcat tggtgaatgc 360
 aagtgggtat gcagtttgca gtatgcttat gttgaattga tgtaacttag ccgaactgaa 420
 agaggctgcc ccagcttgat tggaacagag gaatttgctg ctggtttt 468

<210> 43867
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-A3

<400> 43867

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ccatggggcaa gattaagatc ggaatcaacg gcttcggaag gatcggcagg ctctgtggcca 120
gggtcgcctt ccagagcgag gatgtcgagc tcgtcgcctt caacgacccc ttcattacca 180
cggactacat gacctacatg ttcaagtacg acaccgtcca cggccactgg aagcacagcg 240
acatcacact caaggactcc aagacccttc tcttcgggtga caagccggtc accgtctttg 300
gcatcaggaa ccctgaggaa atcccggtgg gtgaggctgg cgctgaagta aatttgtcgt 360
ggagtccacc ggcgtcttca ctgacaagga caaggctgc 399

<210> 43868

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-A9

<400> 43868

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gtggacaagc gccaccagct atgatgcccc ctcatgcagg atttgctttc cagcgacagc 120
ttggtccagg catgacgcct gagggggccc atatgccaaa gtattatgtg gcggctgtac 180
aacacggaca acaggggtcca cgcccatgta ttacgcgtgg agctggagac caatgtcagc 240
aacctgtgcc accattt 257

<210> 43869

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-B12

<400> 43869

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gggccaggca tatttctctg atgcaaactc acacaaactt ggtgctatag tctacatcac 120
gatcctaaac catctgatca ataacaaaaa ctagtactgc atggaggtta ctccaaagac 180

tctggctgac tttaatcggg ggcaactctca tctattacga atgaagagtt tatcttttga 240
tagattgccc tagtatccga tgagcatgtg aatgaattca aatcaatcta taagtttaag 300
aaattcaaca ctatacaact cttgggtgaa ccttaaagct ttcaattaga ctttttagagg 360
ctgaatcact taaaactgta ttcttttcaa acc 393

<210> 43870

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-B2

<400> 43870

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gagcttattc agtatagaag gaatcagatg attaaacgag gaacagtaaa ggagcagcta 180
gcagttgatt cagtgtccag gaagatgggt ggtttgtgtc cactcatgcc agaagagggtt 240
ggacttctac ttcaagcagt aggttaccce ccaactacaa taatattctt ggccgggttct 300
gagacttttg gtggacaaag aatgcttatt cctctacgag ctattgtttc cgggggctaac 360
ctagtagacc gcacttcatt atgtagtcag agggagctgt ttgatttaat tggggccagag 420
gatcctcgaa cccca 435

<210> 43871

<211> 57

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-B3

<400> 43871

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<210> 43872

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-B4

<400> 43872

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aagaaaggta gctggaacac tacagcaaag ggcattccat ctaaggaaaa ggctgatgat 120

ccatggaata gtaagggggg taatgatgac agcaagaaaa ctgacacctg ggggtgctggc 180

tcgtcagggtg gggatcagga actttcttgg agcaaacctt atttctcttt gggggaccag 240

gaatctactt ggaacaaccc aaggttcagt gacgatgaca atgcgaataa tagagggtga 300

tttggaagtg gaaatcgagg caaagggaga ggaaggaatt ttggggattg gggggtggtg 360

ggtcacatg gaatggaggc aatagaaacg atgaatcagg tgg 403

<210> 43873

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-B5

<400> 43873

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attctccgac gccgtctccg ctccgcgcgtc ttctccgacg tcgtcacctt cccctcgaca 180

aggttgctta gaagcagtgt gcagtgatgc gaggcattga tgcgagagtg caaagtggaa 240

gcaacacatg aagtcgacat ggagaaggaa aatgcaatga cagtccacat gaaacttggg 300

aaaaaagaat taaatcccaa agttcctaata gaagagactt ggaaatTTTTT tacagtttta 360

tgttatattg gctatctatt tgtgtgaatg gagatgacct tgctggatgg att 413

<210> 43874

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-B6

<400> 43874

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gcacctgca cgccggccc tctgctgca ccgacggtgc ccggctccct cggcatccac 120

cagcgggtgcc cgactccaag aaatgtacaa gtcacggctg caggagctgt gccagaagcg 180
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 ccgcgccact gtctgtctga atggcgagag gttcagttcc cgggatgaag gggagaagtc 300
 actcaaggag gcgtacaacc tcgcggtgat ggccgccttc gacaacctca atcggcgggg 360
 cttccggccc gggcccttgg cctgccccg gctgctccag cgccggcctt atccgagacc 420
 cagctgtctt accagagtc 439

<210> 43875
 <211> 283
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-B9

<400> 43875
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 ccagagcctg aacgaagttc ggaggacagg catggagact ctcacagatg cagctggaga 180
 agacactagt gaattgccta gaaagttgca ccggacgac agactaccgg taacagtaat 240
 ggaagcaggt tatgagccag atggcgagcc ttatggtatg aat 283

<210> 43876
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-C1

<400> 43876
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 caagacactg acagcttcag atacgagcac tcacggcggg ttttctgttc ttccgaggca 180
 tgctgaggaa tgtctttctc agctggacat gtctcaaaat ccaccttgcc aagaactggt 240
 tgccaaagat cttcatggga ctgaatggca ttttcggcac aattttcgag g 291

<210> 43877

<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-H3

<400> 43877

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attacatctc tggttacatg tgagggttga aaatcagtat ggaattatgg atgagtgtac 120
caaccttaat gtaccggttc aagattatgg tggatatcttt gcgtac 166

<210> 43878
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-C11

<400> 43878

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gttcctcttg cacacatctt tgatcgtggt gtggaggaat tgtttatctt ccatgggtgcc 120
tctattggat tctggcaagg ggatgttaag ctactagttg aagatattgg tgtgctgaaa 180
ccaacaatta tgtgtgctgt tcctcgtggt cttgatcgga tattttctgg actacaagct 240
aaaatttcct ctggtggggt tttaaagagt acaatgttta atcttgctta caaattcaag 300
cagtttagaa tgatgagagg agctaagcac aatgaagctg cttccatatg tgacaaaata 360
gttttttagta aggtgaaaga tgggtcttggt 390

<210> 43879
<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-011-Q1-K1-C6

<400> 43879

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tgccacctgg tgattccggt gcccaaaca cctgcccaac gctcaacgat gttgggacgc 120
ctttagccgc taccacttct cctctggaaa tgtcaagaac aaacagtgag ggtcttactt 180

tcttggagta cgtttcaccc tagttcttct cc 212

<210> 43880

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-F4

<400> 43880

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caacgagccc cctgcccctc cgtctcaaatt accacgcgcc ctgatggacg acgtccaacgc 180

catggatgcg gatctgtgga tctccaaagt caaggagggc cagaacccat tcgatcacia 240

acttaactac cactattaat 260

<210> 43881

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-F5

<400> 43881

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tttaaagggtg gccgacaata tctccaaaac ctggctctta aaattaatgt taaggttggt 180

ggcggtaata cagttctcga agatgcttta aataggagaa tacatttggt aacagattta 240

cctacaatta tctttggagc tgatgttacc caccagctc caggggaaga tgcacacctg 300

tctattgcag cgagatggtg tcagtgaggg gcaagttttt ttttagccag gtcttgcttt 360

atgaagtgga tgcaattcga aaggcgtgtg ccagcttgga agagggtac ctttcttcaa 420

ttacattcat tgtggtgcaa a 441

<210> 43882

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-010-Q1-K1-F6

<400> 43882

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gatcgaggag gcgccaatag cgagaggggt tctctctccc tccacggctc caacgagccc 120
ccggccctct cgcctcaaat cccacgcgcc cggttgccgc ccgccccgc catggatgtg 180
gatctgtgga tctccaaggt caaggagggc cagcacctcg ccgagcacga gcttcagtcg 240
ctctgcgaat acgtgaagga gatcctcctc gaagagtcga acgttcaacc ggtgaatagc 300
cctgtgacgg ttgcggtga catccatggg ccaaaggntt ttccatgacc tgatgaagct 360
cttcgcgacg gggggccacg tcccagagac gaactatatt ttcatgggtg attntgtgga 420
ccgtggcttc aacagtctgg a 441

<210> 43883
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-010-Q1-K1-F7

<400> 43883

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ccgtatgaga ggttgtctat tatcagcaaa ggcttgcaat ttcaagaggc tgacgggtgac 120
ggatcaccat cacctgaatc atctgctcgg aaggatacaa acccaatctt agtatcctcc 180
aagtcgagga gagtgagggt tgtgctccca gaaaatgcgc agatcaacag ccaagtgcgc 240
aacgagctgc aagagctgac tgaggcaaga gaggcaggca tgtccttcat catggggcgc 300
tcgtatatga aggcgaaaag tgggtctagc cttgatngna aaaaagcggg ttgccataaa 360
cttcatctat gagtctctga cgaggaatag ccgaggtccc gnctacgcgg ctaacgtgcc 420
acatg 425

<210> 43884
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-F8

<400> 43884

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ttaattggtg atatggttac tgaggaagcc ttacctacat accaaacaat gcttaacact 120
cttgatggag tccgggatga aactggtgca agtccaacca cgtgggcggt ttggacaagg 180
gcatggacag ctgaagagaa cagacatggt gaccttctta acaagtacat gtaccttact 240
ggaccggttg acatgaaaca aattgagaag accatacaat atctgattgg tccccgaatg 300
gatcctggaa ctgagaacaa cccctactt 329

<210> 43885

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-010-Q1-K1-G1

<400> 43885

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agcgtgattc catggccttc acattggcaa agcatcacct ttcaggcttt gtcttccagt 120
ccagcgattc tggcacaatg ctgcgaaaaa aactggtcaa atcgcttatc cggtgctatg 180
cacagaagcg gcatcatgag gttatgctta agtgcttcgt tcagcaaggc atcgcacagg 240
attccaagag cagtgagctt gaccggagat ttgaaatctt gaaggatgct tgtgagatga 300
actccaacct cgtaggtgaa gtccatagac ttttgnnaaa ggcatgtctt ggccaatgaa 360
gccagatatt taagtgtgtc attaaacttg cagcgttagt tgttgggaaa gctcgacaaa 420
gtggcccaaa atatg 435

<210> 43886

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-G10

<400> 43886

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 tacatagtca aaacaaagaa catgaaaata agaatactta aaaacttctt aattggacta 180
 agtatattct aacttctaaa attcactaca acactcaata actattatct taacagaatt 240
 aacaaaatcc aa 252

<210> 43887

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-G12

<400> 43887

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 cctgtaattt tataaatatc atcttgccac tgtcaaattc aacctctcat tcttaatgta 120
 ctactaataa aacatataac tctactcaac gacgaataat attctccact atcaatccat 180
 ttgaccacta atactactat ccaaaagtat ttctaccttg acactctaac aactcctaca 240
 ttatccctac atatttcctt cctcttatta tctctatata catcacactc cactattaca 300
 tgctacttac caactcataa gcactagcta ctcatgccac acatgaaaac ttttacaata 360
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<210> 43888

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-G2

<400> 43888

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 tgagtctgtt tgcaggatac tcagggtttt ttatcatgct gtcgaagtga tttgtagtcc 180
 tatctgcccc acagcaaattg tgtacttcaa tgaactgtgg aaagttagaa cagttttgca 240
 agaagaagca tcaactgatc tcattgaact tgctaacatg gtttgggaga tgcaggaagc 300
 attcaatgag tactggcaaa attcatactt gtggcttttt tcccgggaat acctgttggt 360

cttgatccca gattcaaaat tactttttatc gagttccggt taaagcgagc ttttggtacc 420
aatgcggaaa agtatgtatc tgccattcgg 450

<210> 43889

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-G3

<400> 43889

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gagaaaaaaaa aggagattga atggcaacat aatggtagct tccactttct tttggtcttt 180
tagtccctac ctttttaggg gataggtcta ctttaaccaca agaggagaag atgccattag 240
ccttgattaa gaaaaccgcy gcatatgccca tattatcggc agatattagt atatatatat 300
tatatatacc aataattccc tatattctag atttaaattt atatatagta tctgtactta 360
gtatttaaca gtagcaggta acgtcagccc aaagattttt actgtgacaa ggtcctacaa 420
ctacagccac cttcactagg t 441

<210> 43890

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-G4

<400> 43890

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tgcatttgga gaatgcattt cggctctggag aatagttatc tgctagatac aacacaactg 120
ttgagtctgt ttacaggata ctcaaggcta cttatgatac tgccgaaacg atttctagtc 180
ctatatggcc cacatcagat gtgtactaca atgaactggg catagtttagc aacagctttg 240
acgtaaattgc atgaactgaa ctaaacaact tgctaacatg atacaggag atgcaggatg 300
cattcaatga tgtact 316

<210> 43891
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-010-Q1-K1-G5

 <400> 43891

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 gggacgcgtg ggcgcacttg ttacatttgg agagccataa tgcatttggg ctttcagaca 120
 gtgaagaatc acaggaacct accaagcgac gcaatagact gggttcagca ggccttgac 180
 cgtattacgc caatatcatc agtcagatcg atactcttgg ttctcgttca agctctgttc 240
 cttcaaatac aagggatata ttataccaaa gtttgccacc aaccataaag tcatctgtcc 300
 gttctaagct aactgcttt ggagtcaacg aagagccttt ttaaaactgt atctcaaa 358

<210> 43892
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-010-Q1-K1-G6

 <400> 43892

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 tggaggcggc aggtcgctc ctctctctca tcgtcttctt cctcctcctg ctctctctgc 120
 cggagcggcc gtccgaggcc gcgcgcggc gaatccagcc gtcgccacc gtcgcgctga 180
 gccgtctcta cgacacctgc aactacggca ggctgcagct caacaacggc ctgcgcgtca 240
 ctccccagat ggcgtggaac agctggaatt tcttcgcctg caacattaac gagacggtca 300
 tccgccagac acctgatgcg ctggtgtcca cgggggtaaa accctggctg cgctgggcta 360
 caacttcgta catctcgatg attgctggtc atacctgaaa cgagtgccgc aggatcaatt 420
 gctgcctgat ccaaagactt 440

<210> 43893
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3076-010-Q1-K1-G8

<400> 43893

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actcgccagt cgccatgggc aagattaaga tcggaatcaa cggcttcgga aggatcggca 120
ggctcgtggc cagggtcgcc ctccagagcg aggatgtcga gtcgtcgcgc gtcaacgacc 180
ccttcacac cagggactac atgacctaca tgttcaagta cgacaccgtc cacggccact 240
ggaagcacag cgacatcaca ctcaaggact ccaagaccct tctcttcggt gacaagccgg 300
tcaccgtctt tggcatcagg aaccctgagg agaattcncc ctccgtgggg tgaggctggc 360
gctgagtatg tctgtggagtc caccggcgtc ttactgaca aggacaaggc tgctgcacat 420
ctcacgggtg gtgcaa 437

<210> 43894

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-H11

<400> 43894

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tactatgtaa cattccaata ctgtcgaggg caagcaaat taactgactc aagatcctat 120
ataaaacctg cactacttgc agacggtaga atccgacata atattagaca aatatataga 180
cgatgaccat gccataaca ttcttgcct caagagcaat gagccagcaa atccagagaa 240
catcaagcat gaaatgaata acgactaaca gatccagaat catacaactg ataaagatac 300
tttcct 306

<210> 43895

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-H12

<400> 43895

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tggattttta aatcggggtt tgtccagtgg ttaatagctc tgatactagg aacatatttc 120
 aaggttggat catcgtatat agcactcatc tggcttgttt ctcttgcttt tgcatatggt 180
 tttttggaag ctactctctc ccctgttcgg ctacctaaac agcttaaggt tgtcacgttg 240
 gttgtggggt tggttgcacc agttgtgtct tctgctgggt tggctgttcg tatggcggat 300
 gtaattgttg gaagtatagt acgtattgac aggaatcctg ggggactacc agactggctt 360
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 ctttcataca ttcatatc 438

<210> 43896
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-F3

<400> 43896

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 cttctgtttt atctggcaat tacgttctat ttttcaaact gtacaagaag gcacccaatt 180
 tgaactcatg cctcatggat ctatatgtgg agcggatgcg cttcgaagct atgaaatgca 240
 tgtctaggct atatcgccca actgtacctg tgggatatgt tgcacagatt ttggggttca 300
 tgagaactga tacaggctgt gcaactcaat ggggaggggg atgatggatt agaagaatgc 360
 gaaaaatggt tgaaagcgca tgggatagtt ctttcagaag gtaacagtgg ggaattacaa 420
 atagacatg 429

<210> 43897
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-D3

<400> 43897

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tatatcacat catctaagct tccacgagaa gtaaaagttt acatgacaaa tctcacctat 180
 caagcagaca ggtacaatat gatccacaaa atcacaaaca ttgtagccac tactgtaaac 240
 tccctcacat tcattgtcca agaatgaatc cttctatctt ttgcattccc caacgccatt 300
 tg 302

<210> 43898
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-D4

<400> 43898

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 ccaagaagaa taggaagtcc actgagactg ttgagcttca gattagtctg aagaattatg 180
 atccacaaaa ggacaagcgt ttcagtggct ctgttaagtt gcctcacatc cctcgtccaa 240
 agatgaaggt gtgcatgctt ggtgatgcc agcacgttga ggaggctgag aagatgggac 300
 ttgactacat ggatgttgag gccctcaaga aaatgaaaaa acccaagaac aagaagcttg 360
 ttaagaagct tgccaagagt accatgcttt tttggcatca gagaccatca tcaagcaaatt 420
 tccccgtctt cttggtcttg 440

<210> 43899
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-D6

<400> 43899

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 atcccatata gttcatgatg ccaagtaaca ataggaagtt cactgagact gttgaacttc 180
 agattactct gaagaattat gatccacata aggacaagcg tttcagtggc tctgataagt 240
 tgccctcacat tcatagtcca aagatgaagg tgagcatgct tggtgatgcc catcacgttc 300

aggatgctga gaagatggga cttgactaca tggatgttga ggccctcaag aaaatgaaaa 360
aaccccaaga acaagaagct tgtaagaag cttgcctaga agtaccatgc ttctttggca 420
tcagagacca tcataagca aatt 444

<210> 43900
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-D7

<400> 43900

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gagaacatgc ccaagtttta ggccgaggag ttcaagaagg tgaacggcgg acgagagatc 180
gaaggagctg tcaagaggag ttacctcaag actgacgagg agttcctaaa gagggacgag 240
agcggcagct cgtgctgcgt aacatccgtt ctacaaa 277

<210> 43901
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-D8

<400> 43901

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ccaagaagaa taggaagttc actgagactg ttgagcttca gattagtctg aagaattatg 180
atccacaaaa ggacaagcgt ttcagtggct ctgttaagtt gcctcacatc cctcgtccaa 240
agatgaaggt gtgcatgctt ggtgatgcc agcacgttga ggaggctgag aagatgggac 300
ttgactacat ggatgttgag gccctcaaga aaattgaaaa accccaaga acaagaagct 360
tgtaagaag cttgccaaga agtaccatgc ttttttggca tcagagacca tcataagca 420
aattccccgt c 431

<210> 43902

<211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-010-Q1-K1-D9

 <400> 43902

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 taccaagcac aacgcagtga acacgaccac catgaacact tcccatgccaaa aaaagaccct 180
 acccacgttc catttctaca tcaccgatgc ccaccataaa aaacagaaca cacacgccac 240
 acataacttc tatacctaca acatctacat actcaatgca cttacacaga cgctccatca 300
 cctgcagcta ttctccaatg acatatacct cataaactcc tt 342

<210> 43903
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-010-Q1-K1-E10

 <400> 43903

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 ccaacaccac ctccccaatc ttatactacc ctccacacgc ctaccccccc ctcaaattcta 180
 tccttcacaa acgacatcca acaaaatata accaatatct acactcacct ccatcactac 240
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 cttattcaca atacgcaaac acaacaatca 330

<210> 43904
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-010-Q1-K1-E11

 <400> 43904

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 cccaagctg gtgctgggcg ccgcacgccg accccgccct cgtctggatc cggcggggaac 180
 gggtgccaag aaaataaaac catttgggtc ggtgacctcc agtactggat ggatgaaaac 240
 tacctacata actgcttcgg gccagcggc gaggtgggta caataaaagt tatccgcaat 300
 aggcaaacag gacagtcaga ggggtatgga tttgttgagt tcttttctca tgcatacaaca 360
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<210> 43905
 <211> 437
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-010-Q1-K1-E2

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 ggtgagaagc caatgatagt tggtcagcac aagggggagg agaaacagtt tgcagccgaa 180
 gagatctcct ctatggttct catcaagatg cgtgagatcg ctgaagctta ccttggcagc 240
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 acaaaggatg ctgggggtgat tgctggcctc aatgttggcc cccttgcgta tcatcaatga 360
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<210> 43906
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-E3

<400> 43906
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atgagccagg gctgttcaac aacgtgaccg agtcacttag gcgaggaaga gtaaggtgaa 240
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 gacct 365

<210> 43907
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-E5

<400> 43907

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 ggtgagaagc caatgatagt tggtcagcac aagggggagg agaaacagtt tgcagccgaa 180
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 acaaaggatg ctgggggtgat tgctggcctc aaatgggtctt ggggtctgct atcatcaatg 360
 agccaaccgc tgctgctatt gcctatggtc ttgacaagaa agcaaccagt gtctgtgaga 420
 agaatgttct catttttgac cttgg 445

<210> 43908
 <211> 433
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-010-Q1-K1-E6

<400> 43908

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 acacgggtgc caaggtcgtt gtgctgcggt ggtggcagga caggaaggaa acgaaaaagc 180
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ggcactcgtc gacgcctttg agactgacag agcgtcatct cgctgcagga aaccagcaag 300
 cctgctgctg ctccagctat gaaagtaagg ttnggttttc cgtgccatga gtgcttcttg 360
 acctgcagtg tgcattgatca cctttcttgg aatttttggg ctttttttggg tgtagtgac 420
 cgtaaaagtg gcg 433

<210> 43909
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3076-010-Q1-K1-E8
 <400> 43909

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 cgcgaaaaag gagggcggag gctcgatggc ggatgagaat caggctggaa agaaagagga 180
 ggaggaattt agcacaggcc ctctgtcagt cctaattgat agtggttaaga acaacaccca 240
 ggtcctcatc aattgtcgca acaacaagaa gctgcttggc cgtgttcgtg cttttgatcg 300
 ccactgtaac atggtgctcg agaactgtcg ttggnaaaa ggatgtggac agagatcccc 360
 aagactggca agggcaaaaa gaaggctctg cctgtgaaca aggatagatt catcagtaag 420
 atgttcc 427

<210> 43910
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-010-Q1-K1-E9
 <400> 43910

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 ctggtgcttg gcgccgcacg ccgaccggg acctcgtctg gatcctgcat caacgggtgc 180
 gaagaaaata aaaccatttg gtcggtgac ctccactact ggatggatga aaactaccta 240
 cataactgct tcgggcccag cggctacgtg gttacaataa aagatatccg caataggcat 300

acacgacagt cagaggcgta tggatatgga gagtcgtttc tcatgcatct gcataaacag 360
ctcttgatat tttaactggc catgtgat 388

<210> 43911
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-F10

<400> 43911

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ccacccacccc cccacccccc cccccccccc cccccaacac cccccacca cccccacccc 180
ccccacccc cacccccac cccctccacc ccacccaccc acccccaccc ctcccaaccc 240
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<210> 43912
<211> 380
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-010-Q1-K1-F2

<400> 43912

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tttaaagggtg gccgacaata tctccaaaac ctggctctta aaattaatgt taaggttggt 180
ggccgtaata cagttctcga agatgcttta aataggagaa tacatttggt aacagattta 240
cctacaatta tctttggagc tgatgttacc caccagctc caggggaaga tgcacccccg 300
tctattgcag cgagatgggt tcaagtgaagg gcaagttttt tttaagcca ggtcttgctt 360
tatgaagtgg atgcaattcg 380

<210> 43913
<211> 330
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-D2

<400> 43913

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ctctctccgc ccgcggcccc tccaggccca tgccaggcgc ccgcggcagg gtcgcaggag  180
ccgccgagge gggcggttcca ctgttctacg cccccctgg ggttcaggtc ccccccgcg  240
tcgtggggcg gtccctatcc gggggagggc gagggcgagg gcgtggatac tggggctgag  300
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<210> 43914

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-B2

<400> 43914

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gatacgaagg gctgtgaaaa agctggttct ctccctccac ccaaggaaag aagatttgca  180
gttctgatat caactatgat gtcaagccag acaaaagatg aagttacaca tgctgctgtg  240
gaacgcctct ctgaaaacgg tttacttgat ccggatgcta tagtgaggac tgatgagacc  300
acgcttgcca atcttatcaa acctgtcgga attttcccct atcagcgaaa ggccgagttc  360
ataaaagaag cttctaaaat ttgccttgag cgctttggaa gggatatttc ggattctctg  420
aatgaactgc                                     430

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<210> 43915

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-010-Q1-K1-B3

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 ccaggaacat ccttctctcc gagaagcagt ggcggttggt ggggtgtgcag cagagccgcg 180
 ggtgggtgca ctactcgatc caccggcccg agccgcacat catgctgttc cgccggccga 240
 tcaactacca gcagcaggag gaggaagcgg ctgccgcgca tgtgctgccc aagtgaagcc 300
 tctgctggcg accaggaatg ttaaaaactc tncactctag ccctcttttc atctctaaaa 360
 ggggcgtcac tgttgtgttg attaatccct ctggctgttg attggaaact tgggatctag 420
 ttgggtcgac 430

<210> 43916
 <211> 462
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-010-Q1-K1-B4

 <400> 43916

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 gttatctggt gaagcccccg tagatacgaa gggctgtgaa aaagctgggt ctctccttcc 180
 acccaaggaa agaagatttg cagttctgat atcaactatg atgtcaagcc agacaaaaga 240
 tgaagttaca catgctgctg tggaacgcct ctctgaaaac ggtttacttg atccggatgc 300
 tatagtgagg actgatgaga ccacgcttgc gaatcttate aaacctgtcg gaaatttttn 360
 cctatcagcg aaaggcgagc ttcataaaag aagcttctaa aatttgcctt gagcgctttg 420
 gaggggatat tccggattct ctgaatgaac tgcttgcctc ga 462

<210> 43917
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-010-Q1-K1-B6

 <400> 43917

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gatacgaagg gctgtgaaaa agctggttct ctccctccac ccaaggaaag aagatttgca 180
gttctgatat caactatgat gtcaagccag acaaaagatg aagttacaca tgctgctgtg 240
gaacgcctct ctgaaaacgg ttacttgat ccggatgcta tagtgaggac tgatgagacc 300
acgcttgcca atcttatcaa acctgtcngg attttttncc tatcagcgaa aggcgcagtt 360
cataaaagaa gcttctaaaa ttgccttga gcgctttgga ggggatattc cggattctct 420
gaatgaactg cttgctct 438

<210> 43918
<211> 336
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-010-Q1-K1-B8
<400> 43918

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ccaacaacat gcttctatac gagaagcagt ggccgttgat gggagtgcag aagagccgca 180
ggtgggagca ctactctatc caccagccag agccgcacat aatgctgata cgccgccgca 240
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tgtgctggcg accatgaatg ataaaaaccg attttt 336

<210> 43919
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-010-Q1-K1-C1
<400> 43919

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gcccgtcgcc ttgggttca tgctgctcat gtgggtgctgc tccaagacct tcgctgctcag 120
cttctactac ctccgcgcc acctccacca gacctggctc gtgccccgct acggcttcca 180

gtacttcctg ccggcggcga agaagggcat caaccagcag atcgagctgg ccatcctgcg 240
ggccgacagg atgggcgtca aggtgctcag cctcgccgcg ctcaacaaga acgaggctct 300
gaacggagggc ggcaccctgt tcgtgaaccc aaaaagggca cccggacctg cgcgtgaggg 360
tggtgcacgg caacacgctg acggcggccg tgatcctgaa cgagatcccc agcaacgtga 420
gggaagtgtt cctg 434

<210> 43920
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-C10

<400> 43920

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acaccacaac attcatgctt ttttctcaac tatcactgac ctaaaactaa cccttctact 120
ctcttaaccc aatccctcta ttaatctacc tacaacatac acaaacacca tcaaaccct 180
ccttttcata tacacatttc aatctatccc aacctatctt atcaatacac accaactaca 240
acatcatcac actctcctca tattaatact ctaaacaatca atctcctata cacctacaca 300
actcacataa tctccactac catcatcatc tgccaacct 339

<210> 43921
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-C2

<400> 43921

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agagaatcat gttttcacca atctggagat tccaaaagga aggtgaaccc aacacactat 120
cgagaaccaa ggttttatac caaggatatt aaagagggcc attcatttga tcaagatgga 180
ggttcgtttg aactttctct agtgacctgt aaatgcattg gggcttatgt caaaaacaag 240
aagaatcaaa accagatatg ctgggttatgg gaaaaggtaa aatcaacaga agacagagat 300
tttcaaagat tcttgacaaa cgtgcaatac aaaacataag ggttttggga tattacgtta 360

tgagcgtgtc tttggtgaaa gttttgtgag cactggtgga atcgagacta caaaggaatt 420
tgtgggcatg ctcgaaactta aacc 444

<210> 43922
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-C3

<400> 43922

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gggccagcca tgggtgcacgt caagttctac cgcaactatg gtaagacgtt caagaaacca 120
aggcgtactt atgagaagga gcgacttgat gctgaactga agctgggttg tgagtatggt 180
ctgagggtgca agcgtgagct ttggagtgtc cagtatgcac tgagcaggat ccgcaatgct 240
gcaaggcact tgctcaccct tgactagaag aaccctcgtc gtatctttga aggtgaggca 300
cttcttcgcc gcatgaaccg ctatgggaca ttaggaccct tgctgagggt cataacaagc 360
ttgattatgt tcttgccctc accgctgaga acttgctcgc atggcggtt caaacactt 419

<210> 43923
<211> 378
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-010-Q1-K1-C4

<400> 43923

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gcatcaaggt ggagcgcaac ccgcccagat ccgcctctc cgagctcggc gtccgccagt 120
ggcccaagtg ggggtgagag aagagcaagt tcccgaggac ctactccgcc aaggagacgt 180
gctacctgct gcaggggaag gtgaagggtg acccgaagg ccacggngag gagttcgtgg 240
agatcggcgc gggagacatt gtcgtcttcc ccaagggcat gagctgcacc tgggacgtcg 300
ccgaggccgt cgacaagcac tacaacttcg agtaagcncc cgggcctcgg cgccgactag 360
ccctgcggcg ctcgatgt 378

<210> 43924
 <211> 368
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-010-Q1-K1-C6

<400> 43924

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 cgtccttatg agaaggagcg tcttgatgct gaactgaagc tggttggtga gtatgggctg 180
 aggtgcaagc gtgagctttg gaggggccag tatgcactga gcaggatccg taatgctgca 240
 aggcaattgc tcacccttga cgagaagaac ccccgctgta tctttgaggg tgaggcactt 300
 cttcgccgca tgaaccgcta tgggctgnct ttggcccctt gagggtcaga acaagcttga 360
 ttatgttc 368

<210> 43925
 <211> 354
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-010-Q1-K1-C7

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 ctctctccgc ccgcggcccc tccaggccca tgccaggcgc ccgcggcagg gtcgcaggag 180
 ccgccgaggc gggcggtcca ctgttctacg cccccctgg ggttcaggtc ccccccgcg 240
 tcgtgggccc gtccctatcc gggggagggc gagggcgagg gcgtggatac gggggctgag 300
 aaggggctgg agatcgcgag gctggggacc ttttnngggn ccgcggatcg tgga 354

<210> 43926
 <211> 186
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-C8

<400> 43926

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aatgcgacgc tctaactgga ggacggccaa atatgcaacg ggtcagggta taccctatct 120
atcttaagac gttcaagaaa ctatctcgtc cttatgataa tgaacgtctt taccctgaac 180
ttaatc 186

<210> 43927

<211> 319

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-010-Q1-K1-C9

<400> 43927

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aacggcctaa tatttaggta nctgggtaca acctacatgg tcctcgatcc gtcacccatc 120
cgttccggat cttgattctt gccaatgcgt gcaagatttc tgcttcgccg aggttaaatt 180
ttattcttct gtgcaccttc tgcggacaac ccgcacgttt gcttggtgcc ctctatttgc 240
ctgctactca ttgcgctcca atcctatgct aatggaacga tcctactcaa cattgccatc 300
gtcacttcta ccatattcc 319

<210> 43928

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-D10

<400> 43928

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gctgacaatc aatctgggct aatgggcaca cttacaatgg ttactcaatt caggggaatct 120
ttcccaaccc aatactctca gctgcgactt taatatttgt catgcgttat ataccatgta 180
gcttaatctt ccgtgcatga tcacattgca atattgctga tagctcacac actcatctca 240
tgattactcg ctacactatc ttatatcgca ctctacatgt gctaacacac ttcaaaatca 300

gcttcatagg tcagttaccct gataactatc atagaacaga cctatataga caatatctac 360
acgttacaca gggttactact tatggaaatt tc 392

<210> 43929
<211> 226
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-010-Q1-K1-D11

<400> 43929

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aactcacact acttaagaan cttttcaaaa ttctattgcc catctaaaca cttacaacca 120
tcactcaatt cattaanaact ctccaatcc aatactctct actatcacta tcactctttaa 180
catttttcat ataacatata ccttaattaa catacactcc tcacaa 226

<210> 43930
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-D12

<400> 43930

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cattaacaaa atcttgccgc caagaacaac catacaacgc tatcaaagca aagcttatat 120
taaacacctc gcaattacca cgatcaccat taacaccatt cattccaaat ataccataaa 180
aaatatgcaa ccttatatga ccaatacaca ccattcataa cagcacacac acacaacaca 240
tcaatactct aaacattaca accaaacaca ctgcacaagt ccacata 287

<210> 43931
<211> 333
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-010-Q1-K1-B11

<400> 43931

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 tgcctaagcc acaaacaact catcgtctga caataccttc acctcctacg gcgagatccc 180
 tcaactcaac gacattacct accgggagac tctgatgtta tcccnagtgc cgaccttcat 240
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<210> 43932

<211> 196

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-G3

<400> 43932

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 cctctccgtc tacaactggg tcggcttctt cggatgggcg catgtgctgc actacgccgt 180
 cctgacactg cctttg 196

<210> 43933

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-G4

<400> 43933

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 cagctgactc cgactaatga agaaaaatct tgggacaaca taaggaggc taaagaagcc 180
 tatgcctcta gcggtaggca gcaagagcaa gctaacaggc aagatcagtt aagctcccag 240
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 tcagcccgaa gaggcaatct ctccgagaaa gaaagagtct tgaaaacggt gaaaggtata 360
 ctgaacaaac ttacaccaga gaaaatcgat cttttaaaag gtcaacttat 410

<210> 43934
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-G5

<400> 43934

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tggaggtcag gttcaccaag ctcttcacg acggcaagtt cgtcgacgcc gtctccggca 180
agacgttcga gacccgggac cctcgcaccg gcgaggtgat cgccagcatc gcggaggagg 240
gcaaggccga cgtcgacctc gccgtcaagg ccgcccggga ggccttcgac aacgggacct 300
ggcccaggat gacgggatac gagcgtggtc ggatccttca caggttcgcg gacctgatcg 360
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<210> 43935
 <211> 144
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-G6

<400> 43935

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cacgcggaag ggtggcgact gataacttga tcagcatggg gtcgttcgac ttgcccagt 120
tgtatgtctt gttcaccaag ctct 144
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<210> 43936
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-G7

<400> 43936

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gctcagaagc agcgacgcag gacataccgt gctcatggac gcatcaacce ttacatgtcc 180
 tccccatgcc acatagagct catcttgctg gagaaggaag aaccagtga gaaagaggcc 240
 gagtctcaga tcgcaaccag gaaggcttag agaaggggct ctatcttctg tgattggctt 300
 agtacaagtt ttggctgatt atttgttgct tcatactgtt tacctgagta ttgtttgcaa 360
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<210> 43937
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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 ccgctcttac cgggtgcctct catccagctt ctacgggtcaa gacacgcatt tgcaccaagt 180
 acaacactac agaaggctgc aagttcggtg ataagtgcc tttcgctcat agcgaaagag 240
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 gagctgaacc tatgcaacca gctgccatgg gccctccagc aggaaacttt ggtgcctcgg 360
 cgactgcaa gatcagtgtg gacgcctntc tggccgggtg cataatcngc aagggtgggg 420
 tcaacac 427

<210> 43938
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-H2

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 tggagcaacg acgacaacca cgccggcgag gagagctgca ccctgttctt ctgctccatc 180

ggaccacgcc ggcgaggaga gctgcaccct gttcctctgc tccatcggcc tgcgggagta 240
ctcgaggggtg gcgaggcggg agaggagtag gcgggagcgg taggcgagcc gtggaggagg 300
atatggaggt caccgaagag gaagaaaggg aagtcgtgga ctctgatgtg gagggtttca 360
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<210> 43939

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-H3

<400> 43939

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gagacagctg aagctgcaaa acgtcttgaa gaaaagaaac gaagtgaacg tgaaatgctg 180
aaagcagcag caaaactaga gcgtgagaaa ctgaagcaag agaaagagtt aaagcaaaaa 240
gaggaagagg aacagaagaa gaaaagaggt gctgatgtgg caacaaggaa gaggcagagg 300
gatgaggagg aaaggaggga gaaggagaga aaaaggaaat gcattgaaga agctcgaaaa 360
caacagaagc gacctattga aagaaaacat 390

<210> 43940

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-H4

<400> 43940

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atatagaaaa tagtttgcca ccattttctg cggtcactta tgcacagatc agagtgcccc 180
ttgtgttact tctggttggt tcatcaaaaa atttctttat ctttgctttg ctaagtatca 240
tacttaatat atatctggag attcccaatt ttgctcaaaa tggcactggg actagaattt 300
gcatgtgcat gtatcaatgt atagtaaa 328

<210> 43941
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-010-Q1-K1-A2

 <400> 43941

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tcttccgcga tttccgcgcg egccgagccg gcatcgtaaa ggcgctcacc acggatgtgg   180
agaagttcta tcagcagtgc gatccagaga aagagaactt gtgcctttat ggtttgccaa   240
atgagacttg ggaggtcact cttccagctg aggaagtacc tctgagctt ccagaaccag   300
cactggggat aaactttgcc cgtgatggaa tggtcgaaaa naaaaaagac tggttgtctc   360
tagttgcagt tcatagtgat gcatggctcc tgtctgttgc attctatatt ggagctcggt   420
ttggatttga caaagatg                                     438
  
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<210> 43942
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-010-Q1-K1-A3

 <400> 43942

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tacaaaacttg taattgcact gaccctaccg gggcacctcc ttggctgctt gcatcacaac   180
tgcaccaaaa tcccatgaga atacacaaca acgacaacga tcgatcaacc aaccacacac   240
tacacgaaac acatgaccaa gcacacgcat actcacgcac ttgagatgcc gcactatccc   300
ct                                     302
  
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<210> 43943
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-A4

<400> 43943

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tcttccgcga tttccgcgcg cgccgagccg gcatcgtaaa ggcgctcacc acggatgtgg 180
agaagttcta tcagcagtgc gatccagaga aagagaactt gtgcctttat ggtttgccaa 240
atgagacttg ggaggtcact cttccagctg aggaagtacc tcctgagctt tcagaaccag 300
cactggggat aaactttgcc cgtgatggaa tgggtccgaaa aaaaaaaga ctggttgtct 360
ctagttgcag ctcatagtga tgcattggctc ctgtctgttg cattctattt tggaaactcg 420
tttggatttg 430

<210> 43944

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-A5

<400> 43944

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cccattccct atccaagga caggtggcc ggcgatggac ggcgacggat gaggcgctgg 120
tgggctgcac caccacacgc gtcacccga ggacgtcttc cgcgatttcc gcgcgcgccg 180
agccggcatc gtcaaggcgc taaccacgga tgtggagaag ttctatcagc agtgcaatcc 240
aaagaaggag acctgggccc ttaatggttt gccaaatgag acttgggagg tcacttttcc 300
agctgaggaa gtccctccta gagtttccaa 330

<210> 43945

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-010-Q1-K1-A8

<400> 43945

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cagtactatt ataaagggca tgtgctcttg aaaaacataa agtcatctca ttaatcccc 120
 atatacacca tagtcattga aaaaactctt tctctactca taccattga attaaaatac 180
 acatttataa aatcaactat catatcaact catacaaaat atcaagatac acatactact 240
 cactaacgcc tctctgaaaa ccatttacat t 271

<210> 43946
 <211> 438
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-010-Q1-K1-B1

<400> 43946

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 tggactgtat taatctaaca tagttgatga aaaaaaaca acgacgtatt acaagttaac 180
 catgtacgaa gaaaataaaa caggcaaaaa tcaacatggc ttcattagcc acggtaccac 240
 tctaccaacg gttttccatc catcgtgact tgtgcaatta ccgcagtaca cttctggtct 300
 ttgagttggt gactgtcttg ataagctggn ttnaaaccca tccaccggtc aagcattcct 360
 gtcatggcga atgtgccacc aagaactgca catagacgag ttacaaaatg aaggaagttc 420
 cttctttcct ctttgatg 438

<210> 43947
 <211> 340
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 43947

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 cgaactgatg acatcggcaa cccttttatt ctccaacgag tataatcttg tagtcggccc 180
 attctttcga accctgctca tctatcgccc ttacaacaat gtgaccacaca tcgacaaata 240

cctctatgct cgtaccgtgc tcgcactaac tatgaaatat tccaccanca cgtgcaactt 300
actacatttc tacatccaac ttcttcgcgc acgtcatggc 340

<210> 43948

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-G2

<400> 43948

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tctacctctc cgtctacaac tgggtcgtct tcttcggatg ggccgagggtg ctgtactacg 180
cggctcctgac gctgcgtttg agcgggcaca aggccgtcta tgccgccgtc gagaggccgc 240
tgcagttcgc gcagacagcc gccatcatgg agatcggtca tgggctcgta gggttgggtga 300
ggctcctggc ctctgcaact cttccacaga ttggatccag gttgttcctt acgtgggtgtg 360
tcttgtggag tttt 374

<210> 43949

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-D8

<400> 43949

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tcagtcctgc ttgtccgcag tccacagttc gccctctatc ctctgctgtg ggatctgcag 180
taccatctgc ttgggectca gcaactgccat tcgcttcagc ctctgcacta ccgtccaagt 240
caagtcgctg tatcacctta gcccatggac gctcgcaatg ccttgatggc ttgacctctg 300
atggagagga agtaaggtga gaaatcacga ttggatgttg actttgtgag gccgtaaaaa 360
ttgagatgta tttttaatat tcttgtaata 390

<210> 43950
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-E2

<400> 43950

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gtacgtcgag gggaagcatg gcggcaagct cccaccaac ttccgcaagc agctcactgt  180
gcagctgaag aagctcgctg ccgccggcaa gctgacgagg gtgaagaact cttcaagct  240
gccggccacc gacgccaagc ccaaggccgc caagcccaag gcaccaagg ccgcgcccac  300
gccaagccc tcgccgaagg cgaaggccaa gaccgctgcg aagcccaagg cggcgctcgcc  360
caaacc                                           366
  
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<210> 43951
 <211> 311
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-E3

<400> 43951

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gtacctcgag gggaagcatg gcggcaagct cccaccaac ttccgcaagc agctcactgt  180
gcagatgaag aagctcgctg tcaccggcaa gctgacgagg gtgataaact acttcaagct  240
gccagtcacc gacgcctagc ccaaggccgc ctagctcaat gcaccctatg acgcgctcaa  300
gccaagccc t                                           311
  
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<210> 43952
 <211> 345
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-009-Q1-K1-E4

<400> 43952

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caccggcagc gacgatgtcg gggcgcgga agggcgga aggtctgggc aaggcgag 120

caaagcgcca ccgtaagggtg ctccgtgaca acatccaggg catcaccaag cccgcgatcc 180

gtaggctggc tcggaggggc ggcgtgaagc gcatttcggg gcttatctac gaggagaccc 240

gcggcgctct caagatcttc ctcgagaacg tcattccgga cgcgctcacc tacaccgagc 300

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-E5

<400> 43953

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agacatcttt caaccagtc tacctcaagc agaggcgct catcctactt caaaagaagg 120

ctgtcattat atttccaaga ccaactgctt aatcacttta ctctcattgc acaatgccac 180

aatattttaat acaatatgaa gtcaatgcct tgaattatac tggctcttga cgatt 235

<210> 43954

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-E8

<400> 43954

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ccacgcgaat ggttcgattt tttttttttt ttaaaaaaaaa tcagtttgtc atgtgtgtaa 120

taattttctca ggctctacag cgacgagacc aggagcaacc accgctagat cgggcgagat 180

ggatggacag tgaagaggcc atgtttgctg gtccttgatg ttatctaaaa cgcacgcatg 240

ctctattata gctagtcac actatatata tacttgtgtt tgtgtattgt tgttcttgtt 300

ctgctgggtgt ctacgccgat taatttgacc tatgttatgg agtgagtgat atatgtgccg 360

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407

<210> 43955

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-E9

<400> 43955

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tagtacacga gatataggtc aaagaaaaaa ttagtatatt ctgtctcaca gtatattcta 120

aaaattccaa aatttaagaa aaagggaac ctgggtgatta attgaatatt tagagggacc 180

taaaatttga agcctatggg ctaaggacac tattgc 216

<210> 43956

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-F1

<400> 43956

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ctgtgtatct ctagttttcc actcaccacg agaacaaaac gagggagacg actgctccac 120

gtacaggccg atcgaggctg aaggatcatc tctgggctgt atggtattgt agacacaaat 180

aatcatctgg gctgggctgg gcatgcaggt aatagtgggtg tgcactagtt ctgaggttat 240

atctctgcct tgttcattct aattcgatct gccgggtgtct tgttgatc 288

<210> 43957

<211> 101

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-F11

<400> 43957

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ttccaatcta caagggatat ttatcaatga cactatacca c 101

<210> 43958
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-009-Q1-K1-F2

 <400> 43958

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 gtacaggccg atcgaggctg aaggatcatc tctgggctgt atggtattgt agacacaaat 180
 aatcatctgg gctgggctgg gcatgcaagt aatagtgggg tgcactagtt ctgaggatat 240
 atctcttgct tgatcatctt aattcgatct gacgggtgat tgttgat 287

<210> 43959
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-009-Q1-K1-F3

 <400> 43959

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 tattgctgta attcattatc catcttcttt ctataattgg gatctttggt tgatgtcaac 180
 cctgtgattg ctctctgcag aggcttacga ttcgctggat ccaaattggca atatcactat 240
 aaaatgggat atcatgcagt ggactcctga tggatatgtc gtaagtagaa ttgccactc 300
 taacagctgt atctctttca tctccagctt ggtaggcctt ggtttattct attaaatagc 360
 ccagtttgac ctgtacaata taagttaatg taacatggtc aatggctgat ttggaaa 417

<210> 43960
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-009-Q1-K1-F4

 <400> 43960

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 tatcgcgtga attcattata catcttcttt ctataattgg gatctttggt tgatgtcaac 180
 cctgtgattg ctctctgcat aggcttacga ttcgctagat ccaaattggca atatcactat 240
 aaaatgggat atcatgcagt ggactcctga tggatatgtc gtaagtagaa ttgcccactc 300
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<210> 43961

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-F5

<400> 43961

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 actgccgacg aggtcgtgaa ggcgctcgcc aacatccgca ctttcgagcg tgtttcgaca 120
 gatctctgtt actacatgtg cctacatggt gcatacagag cataaactaa agcatgtgat 180
 gatggcctct tagacgctta ctatagaggc acaaatatga aactaccagc atgtactata 240
 gctctaattc tagatctttt acctactatg agcactgaat gatggcataa gtagctatca 300
 aatacttaga agactttaaa attgactcaa tggatctgaa gataaatatc att 353

<210> 43962

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 43962

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 tacagggagc agccctaggg ttgagaacca cgggcgctac gacggtttcg gcaacctgcg 180
 ggatgatctc ggctcaattg tagtgcgcca tccaagcatc cgctcgtgt gagctttctg 240
 agttttctgac catggaaaac tgcaacaaga cggcggcccg cagccataga agtgggcata 300

tgggctacta tgctaactct caaagcgtga ggggggcatt tacctnctag tttgtcattt 360
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<210> 43963
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-F8

<400> 43963

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 tacagggagc agccctaggg ttgagaacca ctgcgcctac tacggtttcg gcaacctgcg 180
 ggatgatctc ggctcaattg tagtgcgcca tccaagcatt cgcctcgtgt gagctttctg 240
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 tgggctacta tgctaactct catagcgtga agggggcatt tacctactag tttgtcattt 360
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 tttt 424

<210> 43964
 <211> 363
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-009-Q1-K1-F9

<400> 43964

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 ttctgtttca gtttggtcgt tatctactca tttcgtgctc aaggcctgga acccaaattt 180
 ccaatctaca aggatattgg agcaatgaca ctttaccacc atgggatgca gcaaccatc 240
 caaatataaa tctacaaatg aattattgcc ctgcgctttc tttgaatctt accaagtgcc 300
 aagaaaccaa ctgttgactt tattggttcc ttttcaatca atggagctaa aactgcaaaa 360

gtg

363

<210> 43965
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-D7

<400> 43965

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tcagtccctgc ttgtccgcag tccacagtgc gccctctatc ctctgctgtg ggatctgcag 180
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atggagagga agtaaggatg gaaatcacga ttgtttgttg actttgtgag gccgtaaaaa 360
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gatg 424

<210> 43966
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-G1

<400> 43966

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ggctccgggt ctctgcaact ctccacaga ttggatccag gttgttcctt acgtgggggtg 360
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<210> 43967

<211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-009-Q1-K1-A4

 <400> 43967

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 agacgaagga tacttcaaat gccttccgga cgggaacctt ttgcaaacta aaattcacaa 180
 tattggagca ccacttgtac gagctgacac gcttggaaac aaatactatg acacactaca 240
 tgacactgac gacggaaggc atacgtgggt acaatatgca gagaaatgtc gctacaatgc 300
 at 302

<210> 43968
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-009-Q1-K1-A5

 <400> 43968

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 aaaatccaga gttgcactca ggcaggacac tttggaacgc aataaacggg tcggcacttc 180
 tttaacttcc cataggttac aatttcaatt tgattttctc tgaccacttg aatatatctg 240
 aataaacctg atcgccacca atttcctcac cggttgcccc agcagctatt ctgatgacgt 300
 cctcaattag agcaaagttc cccattatat caacatgtgc accggtctgg gtgccccctg 360
 ctttc 365

<210> 43969
 <211> 220
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-009-Q1-K1-A6

 <400> 43969

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gaggggaatta gggagcttca ggcggatccg taacatccgc gaacggcggg aaccagggag 180
cttcagtcgc ctaaaaccgg agtcccaat cgatccactg 220

<210> 43970

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-A7

<400> 43970

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gaagtacata gttagactca ggcaggtcac tttcaaacgc aatcaacggg tacgaactag 180
tttaacttgc cataagctac aatttcaatt cgatccactg tgaccacttg catatctctg 240
aatgaacctg atcgtacca atttcgtcac cggttgcacg agcatctatt ctgaagaccc 300
gctgaatgtg tgcaaaactc cccattatat caaca 335

<210> 43971

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-A8

<400> 43971

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gacgctagag tacggcatgg ccgagctcat caacaacagg cacgtcatgg agaagctaca 120
gacggaggtg aggacgacga tgcgctcgcc ggacggcaag aagctggaca tgctagcgga 180
ggaggacctc ggcagcatgc cctacctcaa ggcgaccatc aaggagacgc tgcgcctgca 240
cccgccggcg ccgttctctc tcccgcacta ctccaccgcc gactccgaga tcgacggcta 300
cttcgtccca gccgggacgc gcgtcctcgt caacgcctgg gcgctcggga gggaccgcac 360
gacgtgggag aagc 374

<210> 43972
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-A9

<400> 43972

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cgaattgata atgttatgtg ttgatcaact acatgacatt ggctgacacc cacactgaat 180
agacgagatt atcgggtattg tttggctacg taatcttata tttcgttagc tgaatgattc 240
cttattggaa tacttcctat gtttactgta tagataatca 280
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<210> 43973
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-B10

<400> 43973

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acattcagca agccccgcag agttcaaaag atatccaaag caagtcccag ggtgcttcaa 180
caaggagctg taaaaaggtt cataagcaag gagtcgcact tggcagggtcg gtggacc 237
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<210> 43974
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-B11

<400> 43974

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gaacattcag caagccccgc atagttcaaa agatatccaa agcaagtccc aggggtgcttc 180
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aacaaggagc tgtacaaagg ttcataagca aggagtcgca cttggcatgt cgttggacct 240
ctttaaa 247

<210> 43975
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-B5

<400> 43975

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aaaatccaca gttgcactca tgcaggacac tttgaaacgc aataaacggt tctgtacttc 180
tttaacttcc catatgttac aatttcaatt tgattctctc tgaccacttg aatatatctg 240
aataaacctg atctccacca atttccttac ctgttgcccc atcacctatt ctgactgact 300
tctcaattag agcaaaattc cccattatat caaca 335

<210> 43976
<211> 123
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-B7

<400> 43976

cggacgcgtg gggaaaatgt ttgcttacag catttattga ggatggaaac acacaacgtc 60
aaacaaatag tgatcctatt atgagtactt ggatatatga aatggcagcg acgagtcaag 120
atg 123

<210> 43977
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-B9

<400> 43977

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aacctgtgca aattgagtgc ttgctgagg gatctgtaag cacagctgga actgcaacgg 120
agaacattca gcaagccccg cagagttcaa aagatatcca aagcaagtcc caggggtgctt 180
caacaaggag ctgtacaaag gttcataagc aaggagtcgc acttggcagg tcggtggacc 240
tctctaaatt caccgactac ggcgaactcc aagcagagct ggacaagatg tttgacttcg 300
aggggtgaatt ggtatctggc agccaaaact ggcagatcgt ctataccgac gacgagggcg 360
atatgatgct tgtgggagac gacccgtggg aagagttctg caacatagtg cgcaagatct 420
acatctaca 429

<210> 43978

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-C1

<400> 43978

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acggtcatgg cacactgtta ttgggacagg gtaattactt aaatatatca aatggattcc 120
acaaatcaat acgaatataa caaataggta gaacattccc tatagatcaa caaagcttac 180
gtacatttcc cttccatgac atagcttttc tatattatta cttaaacata atttactatt 240
actaacat 248

<210> 43979

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-C9

<400> 43979

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gaccgttgat taccacagct tcaagctcgt catcgctggc gatggtggaa ctggtaaaac 180
tacatttgtg aagaggcatc tgactggaga gttagagaag aaatatgaac caaccattgg 240
tgtggaagtt catccgttgg atttcaccac taactgtggg aagatcaggt tctactgctg 300

ggataccgca gggcaagaga atgtttggtg gcctcatgga tggatactat atccatggcc 360
aggttgcgat cataatgttt gatgtaacct caaaggttac ttacca 406

<210> 43980
<211> 148
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-D10

<400> 43980

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gggccccaaa ctgatttccc tgagttcctc acgaaaaaaaa aaaaaaaaaa gggcagccgc 120
cctttttata tttacttatt tattatatt 148

<210> 43981
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-D2

<400> 43981

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ttggagcagt ccttggtttt ttcattggga tttcattccc ttcggtcagc ataacaaagc 180
ttcactttcc agatagcttt atttcgtaca ttgaagacaa agacgctgga ctcacgaccc 240
aagctatact caatcatgct tggacttctg ccagaaacgc aaggggaaat ggtaccgaac 300
cgacttcaaa cagtacctta aagatttatg tcccaacgaa cccc 344

<210> 43982
<211> 361
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-009-Q1-K1-A3

<400> 43982

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tgcgtgccgt cttgagaggc atcaaggaga aggggctcac caacttcac cgcgacgtcc 120
 gcgacgaagg atacttcaaa tgccttctgg acgggaacct ttgcaaacg aaaattcaca 180
 atattggagc aacacttgta ggagttgaca agtttgaaa caaatactat gagaaactac 240
 atgacactca gtacggaagg cataggtggg tagaatatgc agagaaaggt cgctacaatg 300
 catnccaagt gcctnctgaa tggcatggat ggctgcacca catcacagat agcactgggg 360
 a 361

<210> 43983
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-D3

<400> 43983
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 tagtagctct gaggatactg aaaatatagt ctttcatgta ctaactgatg ctcaaaattt 120
 ttatgccatg aagcactggg ttgcaagaaa ctctacagg gaatcagctg tgaatgtcat 180
 aaattatgaa caaattattt tcgagaattt ccttgagttt ggaaccagc agttatattt 240
 gcctgaggaa tttcgaggtt tcatcagtag ccttgagcgg cctactgaga agagtagaat 300
 ggagtattta tcagtgttca gtcactcaca tttctttctt gcagaaatat tcaaaggttt 360
 aaagaacgta attgggttgg atgatgattt ggtcgtcaa catgatctct ctttc 415

<210> 43984
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-D4

<400> 43984
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 tagctgctct gatgattctg ttaatatact gtatcatgaa ctaactgatg ctaacagtta 120
 ttatgccatg aatcactggg ttgaaagaga ctccaacagg taatcagatc gtaatgtcat 180
 taatcttgac caaattattt acgacaatca tcctaaactt agaccctaga ctctctatcc 240

gcttgatgca taaccatgct tgatcatcag ccttgaacgg actactgaga agagccgaat 300
ggac 304

<210> 43985
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-D5

<400> 43985

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ctgccgcagc cgcggcacat ggagctccgc cgccggcaca agtgggtggc aacgccttcg 120
tgcatcagta ctacaacatc ttgcaccagt cgccggagct cgtctaccgc ttctaccagg 180
aggccagctg cctcggggcg cccgccggca cgggtgccga cggcatggac acggtcacca 240
ccatggacgc gattaacgac aagatcgtgt ccatgggtat cgaccgggcg gagatcaagg 300
cgggtggacgc gcaggaatcg ctctgtggcg gcgtcagcgt gctcgtcatg ggatcatctta 360
cggggaggaa cagcgtcagc cgccagttcg tgcagtcctt cttctcgcgc ccgcaggaga 420
agggtac 428

<210> 43986
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-D6

<400> 43986

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ctcccaagat ggcgtctcag ccggcgcggt ctgccgcagc cgcggcacat ggagctccgc 120
cgccggcaca agtgggtggc aacgccttcg tgcatcagta ctacaacatc ttgcaccagt 180
cgccggagct cgtataaccg ttctaccagg atgccagctg cctctggcg cccgccggca 240
ccggtgccga cggcatggac acggtcacca ccatggacgc gattaacgac aagatcgtgt 300
ccatgggtat cgaccgggcg gagatcaagg ctgtggacgc tc 342

<210> 43987
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-008-Q1-K1-G6

 <400> 43987

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 tagatatgat aaaccagcac caaacagtgc atctatccta tgcgcttaac ctactggtcg 120
 tgaagcccca gacctatc atcaaacgtg gcaaaacatc acaatttatc aaattacagt 180
 ttagcacttt ccctaaaaaa caaatttgtgt tgcaactgtt ttggattctg gtgcaaaaca 240
 ctcaatcatt tgtcacatca tcatcacatc aaatttgggt cgaaaagact cctggctgcg 300
 gtggaagact ggtaggttt ggcttgcgac ttcattccct cctcaacagc atcccttccc 360
 tgtagcaagc tatcactgaa cattgaga 388

<210> 43988
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-008-Q1-K1-G7

 <400> 43988

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 gactagcgag gcgtccgggg tcgccgttg accgggctca cccccgccc cgccccgcc 180
 ggcggcggat ctgacggagc tggtaaggc gcagatcgcc ggcacccac gctaccgctc 240
 cctcctctcc gcctacatcg actgccgcaa ggtgggcgcg ccgtcggagg tggccacgct 300
 gctggaggag atcgccggg agaggtgccc cgcgcgcttc gncggcggg aggtcgtcgg 360
 catggacccc gagctcgacg agttcatgga gacgtact 398

<210> 43989
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-G9

<400> 43989

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tcacatcaaa aaccagggaa tcacttctgg atgccttgac tgcacatgct aaagccaatc 120
atgaatatga tgttcctgaa gttattgctc tgcccataac tgggtggtaac accaagtatt 180
tggaatggat caagaacagc accccggaca agtgatctct tttttttttg gagctcgaca 240
t 241

<210> 43990

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-008-Q1-K1-H1

<400> 43990

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atgatgtcag ggcgcaggtc gatggacaag aaccgcccga acggggagca caacctggtg 120
gaatggggcg gccccctcct aggcgagagg cagcggttct acaagctaata cgaccctcgc 180
ctggaggggca acttctcggg gaagggcgcg cagaaggcgg cgcagctagc gcgcgtgtgc 240
ctgagccggg accccaaggc gcggcccctg atgagccagg tgggtggagg cctgaagccg 300
ctgcagaacc tcaaggacat ggcgagcgcc tntacttct tccagacgat gcaagccgag 360
cggatggcgc actcgagcag catgaacggg aagagcagca ttaacg 406

<210> 43991

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-H10

<400> 43991

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agctagctgg aggcagcgag cggctcgggt gctgggacac gcgatcgagc tacagcaaag 120
aagactgcaa ggtggcgag caggcatgga ggatctgtac agcatccacc cggggatctc 180

gcgccacggg gcggcggcga ctagecgaggc gtccagggtc gccggtggac caggctcacc 240
 ctcagcccct gccccgcctg cagcggatct gacggagctt gtcaaggcgc agatcgccgg 300
 gcacccacgc tacccg 316

<210> 43992
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3076-008-Q1-K1-H11
 <400> 43992

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 acccgcccga gccgagcaac agccagcaga gccgcacgc gcccggggaa ccctgagttg 180
 ccggtccggn cgcttgagaa gatttccgtc ccagcagcat agccgcagct ccgncggccg 240
 tcgcctcaag gcaagtcccg agcgccctgt cacaggcccc aggtagagtt tcgtatcctc 300
 tgcaaaatcc aaatctaac cgatttttgt aagatttaat ctaatccaat ggattttcga 360
 tgacccttaa ctaaggtttt ttttcata 388

<210> 43993
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-H12

<400> 43993
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 tggaatcccc ttgatgttaa ctatatctta actagttctg tcgataactc tgaccgtatg 180
 tgggatcgtc gcaatcttgg ttcgagagga gctggttctc caattcacia atttcagggc 240
 cataaagctg ctgctctttg tgttcagtgg tcacctgaca gaacatctga ttttggaagc 300
 tctgcagaag acggattttt aaatgttttg gaccatgata aggttgtgaa gaagaaaaat 360

tctaattgttc catctgggct tttttttta

389

<210> 43994

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-H2

<400> 43994

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tccagacact ggcattgcttc tcaattctgt ctgcccttat gatccgatct gtggagggaa 120

gcataccaat gccttgaagg agatgagtga gccattgaag gtgcgtatct tgagcctgtc 180

gtcaggtatt gaggcctcca ccatgcacac gagagagacc cattgggttcc tgttgactga 240

gtcgcccaca aacaccattc tcttgtttct cagattttca agcagcttga tggcatcaaa 300

tctgttttgg aaaaaaggaa ccatattaaa aaggggaatt tgtcatgatg aatttggcct 360

ttctgttcat gtacttag 378

<210> 43995

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-008-Q1-K1-H4

<400> 43995

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atgcagcagc ccccgccgca gcagccgag cggggcatgg cgccgnctcc gcctccgcag 120

gctgctggcg ggcagccacc gcagtggggt gggatcccgc cgccgatggc gcagcagtac 180

ggcgcaccgt ctncgcagca gcctccggcg atgtggggcc agcctccgcc gcaggcgcac 240

tacgggcagg caccaacccc tcagcagtac tacgccgcgc cncgggtgcc ggtgcaggcg 300

ccagccggcc ccgctgcggc ggacgaggtc aggacgtctt ggatcgggac ctgcaatact 360

ggatggacga gaactacgtc ttcgggtgct ttcgaacact gggga 405

<210> 43996

<211> 402

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-008-Q1-K1-H5

 <400> 43996

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 gctgctggcg ggcagccacc gcagtggggt gggatcccgc cgccgatggc gcagcagtac 180
 ggcgcaccgc ctccgcagca gccttcggcg atgtggggcc agcctccgcc gcaggcgcac 240
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 ccagcctgcc ccgctgcggc ggacgaggtc aggacgctct ggatcgggga cctgcaatac 360
 tggatggacg agaactacgt ttttcggtgc ttttcgaaca ct 402

<210> 43997
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-008-Q1-K1-H6

 <400> 43997

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 ctgagaatgg tataggtctt gtcaagctaa tgggtcggca cagtggtttt attgcacatt 180
 atgctactct ggctagcagg gacgtggatt gttgcttgat ccagaaatca ccattctatt 240
 tgggaaggcga aggcggactt tttagatata tagaaaaacg tttgaaggac aatggtcata 300
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 ttgggaaaga tgcttcaggc aacg 384

<210> 43998
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-008-Q1-K1-H7

 <400> 43998

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 aatgaaggct gcactagtgg aagcaaggca gctagtgaat cttcttatga gcaatagtcc 180
 agagaatttc ctaaattccag tgatccgtga gaagagctat aacaagctag attatagaaa 240
 ggttgcaatc atctcagaga agtttagaga tacctcagag agttatttct caacatttgg 300
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<210> 43999

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-H8

<400> 43999

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 gagaaggcgg agaagacgac cgcagggaag aagcccaagg ccgagaagcg gctgcccgcg 180
 tccaagtcct ccggcaagga ggcggcgag aagaagggga agaagaaggc caagaagagc 240
 gtggagacct acaagatcta catcttcaag gtgctgaagc aggtgcaccc cgacatcggc 300
 atatcctcca aggccatgtc catcatgaac tccttcatca acgacatctt tgagaagctg 360
 gccggcgagg ccgtcaagct ggcgcggtac aacaaggagc cc 402

<210> 44000

<211> 222

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-008-Q1-K1-H9

<400> 44000

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 ctcaaggcca agtgcctgat gaactgcgag gtggcgatca tcctggagca caagtacgag 180

cagatccagc agcacgcgtc gtcngagtcc gacccgtcgt cg 222

<210> 44001
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-A1

<400> 44001

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caggaccgac caagaaaaga cagactacat gttcttggac gatgttgact atcttgtaga 180
ggagaatgca gcagatgaca cgtgcttata tcccagacca gatgggaccc ttggaagcc 240
tacctttgag gataattttg aagagcaaaa tattcagaaa ggcagctcat gggaaattgg 300
cataacaacg aactcaaagt tggaacagaa tgctagtgtc gtg 343

<210> 44002
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-A10

<400> 44002

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cgggccgagg aagaagtcgg tgacgaggtc cgtgaaggcc gggctccagt tccccgtcgg 180
ccgcatcggg cgctacctca agaagggccg ctacgcgcag cgcgtcggca gcggtgcccc 240
cgtctacctc gcggccgtcc tggagtacct cgccgtgag gtcctggagc tcgccggcaa 300
cgctgccaaag gacaacaaga agacgcgcac cgtcccgcgc cacgtgctgc tggcgatccg 360
caacgacgag gagctcg 377

<210> 44003
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-009-Q1-K1-A2

<400> 44003

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aaaatcagct gaaaagcaac aaggagtatg gggatgggtt gtacgatttc ttagcggttg 120
tcaggaccga ccaagaaaag acagactaca tgttcttgga cgatgttgac tatctttag 180
aggagaatgc agcagatgac acgtgcttat ctcccagacc agatgggacc cttggtaagc 240
ctacctttga ggataatddd gaagagcaaa atattcagaa aggcagctca tgggaaattg 300
gcataacaac gaactcaagt tgggaacaga atgctagtgc tgtgaatgat tctggtgact 360
ggggaggctg gag 373

<210> 44004

<211> 264

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-008-Q1-K1-G4

<400> 44004

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atgcancagc ggcattggct agcagcctga gtcgggcatg gcgccggctc cggctccgca 120
ggctgctggc gggcagacac cgcagtgggg tgggatccct gcgtcgatgg cgcagcagta 180
cggcgcaccg acttcgcagc agcctccggc gatgtggggc cagcctccag cgcattgcga 240
cttacgagca ggcaccaacc cctc 264

<210> 44005

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-D6

<400> 44005

atcgcaatat ggacagatta gctatatttg ttatcagctg ctgcctttgg ggggttctct 60
cggatgatgg cgatactgcg gacttcaagt ttaagagacg aagcttctac agtcattggt 120
gccgctcata ttctggcatt tgtgacaacc tacattctgt acctcaactt ctatgagctt 180

gacaaaggcc taaacatgat ggattgtact gcgataagca ttgctcagtg tctcctgtgg 240
 tcaactgtggg ctgccatgag tgggcatcgt tcgcggtca agatcatatc tgtcgacgtc 300
 agatgtgctg ttgcagtact tgtggatacc tacgacattc cacc 344

<210> 44006

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-D8

<400> 44006

ccaactctgg agatttaaag ctgattttga agacgtgct ttaggggata agtgggtaat 60
 aattgatgtc aggaacttgc ggccatgacg gaaggataca gcggcagtga tctcaagaat 120
 ctctgtgtga ctgctgctaa cctccctgtt agggagctcc tgatgataga aagagagagg 180
 gaactgggaa cagctctagc ttgaggcttt aaccgaatat ccctgtactg atcctgcatt 240
 acacgtctaa tgaacttga 259

<210> 44007

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-E1

<400> 44007

cccacgcgtt cggatagatc gtctattgct atcctgtcat ttacaaactg ttactcatct 60
 gaccatctat 70

<210> 44008

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-E12

<400> 44008

cgcttaggcg gacccctgta cggacgcttg actcctgctt cacgggttcag gatcaccgtt 60
 gacagctgga gccatggagt tcatcgacgg cgcttcgacc ttgtcccatg atgacgacga 120

ctacagttgt cggacgccga ctgacgctgt gagccaggtg aggcctacgt agacctgtcc 180
gtctgatccg t 191

<210> 44009

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-E2

<400> 44009

gaaagggtcat tatatgcaaa tctgtcatcg gcaaactgtc acaaactctga gcatctaaag 60
agaccagaga actgggcact agttgaaaag gcaaaataca tctacattgc tggatttttc 120
cttacagtgt cgctgtttc tatccagcta gtcgctgagc atgctgtagc aaataacaag 180
gtgttcctga tgaacctctc tgctcccttc atttgcgagt tcttccgtga tgcccaagag 240
aatgttctac cgtatgctga ctacatcttc ggcaacgaaa ctgatgcaaa gatctttggc 300
aaagtcagat gatgggagac tgataatatt gaggagattg ctttgaagat ct 352

<210> 44010

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-E4

<400> 44010

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catctccttg tccctggtag gggtgggtca gttctatcac aagcttcgct ctgttttttt 120
ttttatattc accttcattg agaagattgt agagtaccat aggctgaggg aatagctcgc 180
ttgttgaatc ccagtgtttt agtccggttt agccttagcc atgaatgtaa aaatgttgta 240
aaattgtcag cctgccttac aactccttc atcaaggcaa aacgagtgca atttcttcac 300
gacaggagct ccacggctgg aaacctcaga cccgtgcctc gcttccttaa ctgcaaagag 360
aagctccttg ccttgggatg gcgatctggc ac 392

<210> 44011

<211> 421

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-008-Q1-K1-E5
 <400> 44011
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 tgcactgttt catctgttga ttacgagaac cgataaagtc cgtgctcttc gtgaggcttt 120
 ctaccgccag aacctttcaa atgtgaccaa tttgcttgcc acagtcttgg tcttctcat 180
 agttatctat ttccaaggct tccgtgttgt gcttccagtg agatcaaaga atgctcgtgg 240
 ccagcaaggc tcatatccaa ttaagctatt ctacacttca aacatgcca tcattctgca 300
 ctctgcactg attaccaacc tctatttcat atcccagctt ctctacagga agtacagtgg 360
 aaacttcctt gttaaccttc ttgggatgtg gaaggagtct gaatactctg gccattctgg 420
 t 421

<210> 44012
 <211> 352
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-008-Q1-K1-E6
 <400> 44012
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 ctgtcgttgc actgtttcat ctgatgatta cgagaaccga ttaagtccgt gctcttcgag 120
 aggctttcta tcgccagaac ctttcaaagt tgaccaattt gcttgccaca gtcttggtct 180
 tcctcatagt tatctattgc caaggcttcc gagttgtgct tccattgaga tcaaagaatg 240
 ctcttgcca gcaaggctca tatccaatta agctattcta cacttcatac atgcccata 300
 tgtttcactc tgcactgact accaaccttt atttcatatc ccatcttctc tt 352

<210> 44013
 <211> 258
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-008-Q1-K1-E8
 <400> 44013

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 ccccttgagt ggatctccta gagcctggta gggatgggtc aagtttatca cgagcttggc 120
 tctagttttt tttttatatt caccttatta gagaagattg tgatgtacta tatgctgagg 180
 gaatagctcg ctagttgaat ccattgtta tatatcctgt ttagcactt aagccatgaa 240
 ttgtaaaaat ggttgtaa 258

<210> 44014

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-E9

<400> 44014

gtcctaaatc gcgaggccgc cctttttttt tttttttttg gtgtaactgg atgataccgt 60
 aactctgga aaacttgata catcagaaag gtaaaacaat gtatttggtg agctacaaat 120
 aacagagcac tcatgtgaca cggacaaata taagatatac acattggatt atggatggag 180
 cgcggaaga caagaat 197

<210> 44015

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-F1

<400> 44015

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 tgaagtggcg tcggggcctt gctctgggag cagacttgca gtcccagttt tccatcggaa 120
 gggggtcgaa gatggcagtt cgacttggtc tgaacaacaa gctgagtggg cagatcaccg 180
 ttaggacaag cacctcagag catgtccaga ttgcacttct ggggtctcgta ccggctgcag 240
 aacttcttta ccggagctta ctgcccagtg aaccatgctt tgcttattaa cttgtcagga 300
 gtcttagctt aattattgca tgatcacatc gatgctatta gcaattttgc ttttcatatt 360
 agtgatgggt cctgc 375

<210> 44016
 <211> 205
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-008-Q1-K1-F12

 <400> 44016

 ctcaaactac cagtgccgcg cctactctgt tctcctctgg ctaatgctaa tggcttgggg 60
 gggacatgag agctggccta ggagctgtgt caatcgtggg tacgcggcca gcattactgc 120
 actgatatct gctctgctgt cacgtgcgca tctatactca taatggacgc tgaactctga 180
 atatgacgtc cgatatccta gaaat 205

<210> 44017
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-008-Q1-K1-F3

 <400> 44017

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 agaccagaga actgggcact agttgaaaag gcaaaataca tctacattgc tggatttttc 120
 cttacagtgt cgcctgattc tatccagcta gtcgctgagc atgctgcagc aaataacaag 180
 gtgttctctga tgaacctctc tgctcccttc atttgtgagt tcttccgtga tgcccaagag 240
 aagggctctc cgtatgctga ctacatcttc ggcaacgaaa ctgaggcaaa gatctttgcc 300
 aaagtcatag gatgggagac tgagaatatt gaggagattg ctttgaagat ctctcaactt 360
 tatttggtt taagcaa 377

<210> 44018
 <211> 351
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-008-Q1-K1-F6

 <400> 44018

 tcgcccacgc gtccgcgtac gcgtgggttt agagctcatg gtgcagaggt attttactat 60
 tagtagatat gataaaccag cgccaaacag tgcattctat ctatgcgctt aacctactgg 120

tgcggaagcc ccagacctat atcatcaaac gtggcaaaac atcacaattt atcaaattac 180
 agtatagcac tttccctaaa aaacaaattg tgttgcaact gttttggatt ctggtgcata 240
 aactcaatc atttgtcaca tcatcatcac atcaaatttg ggtcgaaaag actcctggct 300
 gcagtggaag actggttagg tttggctcgc gacttcattc ctttctcaac a 351

<210> 44019

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-F7

<400> 44019

ggacgggaga gcgacctcag cagacaagag ccagacgaga ctgagagagc gagcaccgtg 60
 acctctctgt ttctctctct tcccttctcg tcttctgcaa gaagccacaa caaatgtgac 120
 cgtctctgtt tctctcatcc ccttcatcac tctgctggtc tccctcttcc acctctggtc 180
 ttggccatgg cctccagcgc ctcccggttc atcaagtgcg tcacagtggg ggacggcgcc 240
 gtgggaaaga cctgcatgct catctgttac accagcaaca agttccccac tgattacata 300
 cccactgtct tcgataactt cagtgc aaac gtggtagtcg acggtaccac tgtgaatttg 360
 ggcctttggg atactgcagg gcaagaagat tacaacagac 400

<210> 44020

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-G1

<400> 44020

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 tgaagtggcg tcgggacctt gctctgggcg caaacttgca gtcccagttt tccatcgga 120
 gggggtcgaa gatggcagtt cgacttggtc tgaacaacaa gctgagtggg cagatcaccg 180
 tcaggacaag cacctcagag cagggtccaga ttgcacttct gggctctcgta ccggttgcag 240
 cctccattta ccggagtttc cggcccagtg aaccatcctt tgcttattag cttgtcagga 300
 gtctcagttt aattatttca tgatcacatc gtttctctta gcaattttgc ttttcatatc 360

aaccatgttt cctgctgttt cagttcactc ctttgaatt ggcagatcgg ttctatcat 420
aattttgggt gaaaaagggt gccagaatta 450

<210> 44021
<211> 236
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-G10

<400> 44021

ctttttcaag cattgaatcc gtgtactggt ttttaggggt ttgtacaatc tgatgctgaa 60
ggattactgg gcatcaatac cagggaaatca gttctggatg ccttgactgc acatgtcaaa 120
gcctatcatg aatattatgt tctgaagtt attgctctgc ccataactgg tggtaacacc 180
aattatttgg aatggatcaa gaacatcacc ctgaacaaga gatctatttt tttttt 236

<210> 44022
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-D5

<400> 44022

caatttggac agaaaagcta tatttttcat cagctgctgc ctttctgggg tactctctca 60
ttttggcgat actgcggact tcaagtttaa gagacgaagc ttctagagtc atgggtgccg 120
ctcctattct ggcatttgtg acaaccaca ttctgtacct caacttctat gagcttgaca 180
aaggcctaaa catgaagggt tgtactgtga taagcattgc tcagtgtctc ctgtgggcac 240
tgtgggctgt catgagtggg catcgttcgc ggctcaagat catatctgtc gccgtcggag 300
gtgcggttgc agtacttgtg gaagcctacg acattccacc gcgatgggga tacgcaaagt 360
gccgtgctat ctgcctcgct tgggctatcc ccctgtcgta cctttggtgg aac 413

<210> 44023
<211> 340
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-008-Q1-K1-G11

<400> 44023

cccacgcgtc cgcccacgcg tccgaagtgt agtgctaggc gatgaagcaa catctctcca 60
catgattcag ctcgtaggtg aaggtttagat aattagagat gacattgtgt tgacttctcc 120
attcaaata tgactaatgt accaccctnc tctcatcaca ngatggccaa gtccttagct 180
aattgaaata gataacagaa acaagaaagg agctcagttc gttatagagg cactggagat 240
gaggtttgta actatcattt tccaattcaa ctgtgctgta ctaagaaagg tccgtccttg 300
atgtttcaac ccactgattt taagacatct ttaacctctt 340

<210> 44024

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-G12

<400> 44024

gctgatcgac cgagatcgga caggcacgcc aggcagctca tcaatgggac gagcaggagg 60
aggaagcaag aagaatcctg ggagctcgcg atgccgaggt ggggggacgc ggaggaagga 120
gctgctgctg acgaggctgt cgcgggcgca gcggcagtga ggctggccaa caagatccgg 180
aagcgccgcg cggtgtcgtc gtcgggggggt tcggaccgag cggccgggag gcggtacgg 240
tccaggaggc ccgcggtgct gctgccgagg cgccggacca gcgcggggcg ggacatgtcg 300
gaatcgcccc gtggccggca ttgccgagg ggcggtaccc gcctcgccga cgggacatgg 360
ccgtccg 367

<210> 44025

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-G2

<400> 44025

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tgaagacact ggcgtgcttt gcaatgctcg ctgactttat gatccagtct tccatgggaa 120

ggataccaat gacttgaatg agactagtga tgcacagcag gttcagatct cgaatcagcg 180
gcaagacatg gacgt 195

<210> 44026
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-B11

<400> 44026

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ttacataaaa ataagttccc tagctactgg ttctggttta ttcagggtttt attacttcat 120
tagggagctg attttttttt ttgaatcgaa tagccctgct attcaggaga ataggggttgc 180
taccgtgcag tgcctatcgg gtactggttc ttttaagagtc ggaggtgaat ttcttgcaag 240
gcactatcac gagcgcacta tctacattcc acaaccaacc tggggaaatc acccaaaagt 300
cttcacccta tctggcttga acgttaggag ctaccgctat tatgatcctg caacatgc 358

<210> 44027
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-B12

<400> 44027

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ggagctctag gacgacgcc tgaccccaac gccactctac ggccactcaa tgccggctgg 120
gtcttcccg cttggttttgc attttggttt cttaatctgc aatcatggtt tttcataata 180
ctgcaagggtg ggcctgataa ataattaaaa ggtagttaat cttagatatt gtttgaacgt 240
atgggatg 248

<210> 44028
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-B2

<400> 44028

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aatgttcgat ttggcgggaa tggagttgcg caaggtggcc ttccagaaga gttagagcca 120
aacaatacga ttgaagcggg ttcttgagct gatgcatggg tagtggcatc aaccacacaa 180
gattggggaa aaatgggtga gagatggata agttctaccc ccttgctgga gggaatggta 240
agtagctcaa ctcaagatt tccttctgtg acacagattc tcaattacag gggtttctat 300
gatgatggat gatgggagat tatctgatat catgtcttgc acaacggcat g 351

<210> 44029

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-B3

<400> 44029

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acatttcctt tgtattcccc ttccaattt gcagtagttt gtaggtagac cgcaaggtgg 120
ttttttcttg cagcaatggc ggccaagggt tgacaaggca tgacgtcctg attaagcccc 180
ctcgcggcag ccacaagatt tcttgcagcg tgggacagga gctgcggctg cggaggaagt 240
gagcaaaagc atggatcttt ccggcacgca gggcgagctg ccgatggcaa caatgcacgc 300
cggcgggtcg ccgtacctgg ggctgcacca cgggcaccca cagcagcaca 350

<210> 44030

<211> 66

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-B4

<400> 44030

acccacgcgt tcgagctagc tctagcctca taggcatat tttgctcgta ggcttcactg 60
cctcta 66

<210> 44031

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-B5

<400> 44031

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gtcaacggaa aacagttgat gcatggaatc actgactgac agccagacct atcatgggga 120

gcacatgggtg gctgttgata atgatctgcc aaattctgac tcatcgccat tggctctgac 180

tgcttagctg gagcagttca acaatggcaa agcatgttca agaaatattg tgaacaacac 240

tgatcagatt gacataatgg atgatttact tgcgatggca atgttagctg cattggctga 300

atcagacggc acaagctata actttgaaat ggaaacagat tctgac 346

<210> 44032

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-B6

<400> 44032

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ggcggaccgg agccactgga gcaagatctc ccagggcggg ctccagcgta tgcaggagaa 120

gtacacctgg aagctctact cggagaggct gatgacctc accggcgtgt acgggttctg 180

gaagtacgtg tccaacctgg agaggcgca gaccggcgg tacctggaga tgctgtacgc 240

gctcaagtac cgcaccatgg cgagcacctg gccgctggcc gtggaggagg agccctccag 300

caagtgatgc gcgacggcgg ccacagacct gatcgatcga tgagcgagag ggagcaactcg 360

gagtgtcgtg tcttttccct tgccaattct ttctt 395

<210> 44033

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-B7

<400> 44033

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ccaagttctc ccaggaaccc cagccgattg attgggagta ctacagaaaa ggaattggat 120
caaaagtggg ggatatgtac aaagaggctt ttgaaagcat cgagatcccg aagtacgtcg 180
acacagttac tccccagtac aagccaaagt ttgatgctgt gattgctgaa ttaaaggagg 240
ctgagaaaga gcatcagaag gagtcagaaa ggatagagaa ggaacttgct gaaatggagg 300
aaatgaggaa aaagatcagt acaatgacag cagatgatta ctttgagaag taccctgaac 360
tcaagaagaa gtttgatgat gaaatccgta acgataactg gggatattga agagattgga 420
gagaactctt atgat 435

<210> 44034

<211> 338

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-008-Q1-K1-B9

<400> 44034

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cggccaaaac cgctcgccgg tgtgtccct tcccccgcg ccgctggcgc cgccggagcg 120
agggggactg cccaaacct agtgggagtt ggagactagg aggaagggcg cgagatccgg 180
cggcggccac ccgatgggg gacttcaacg tcgctgtgt gatcgtggcg gcggtggtca 240
gcgtgctggt gctgctcgtc agcgtctacc tgctcgtcaa ctaccagcac cccgacgacg 300
tcaaccaggc ctacttcnc aagctcgtcg tcgtgctc 338

<210> 44035

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-008-Q1-K1-C11

<400> 44035

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tagagatgaa tctgtgttat ttgatgtgct aggtataacc attgaacctc gtttgccttc 120
aagttgaata aaaacagggt tgtcggaggt atttttagt tttgtccaga aatgcaatgt 180

gttttcttgc ccaaaggctg tatgtttacg gcttacctag tggtgcttgt atctagcgaa 240
atgataatat gatatgacag ccttcgaata tcttctgtgc taatgatgga attgcaaagg 300
atctaccatt tatttttcttc ctcagatggt gcttatgtcc tacaaagccc atgaaaaacc 360
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<210> 44036

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-C12

<400> 44036

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gttcgtttgt ggggtgatcc gccccctgt cggattcttt cacctccgag ctctgggaca 120
ggggagatct gtggtgtcgc agcctcgctt ttcttgtacg cgcgcggtgtg ggcactcagc 180
agcaccttca gaaatggact tttttacaga gtatggcgag gggagcaggt acaagataga 240
agaggtcata gggaaaggca gttacggtgt ggtttgcctt gccttggaca ctcatactgg 300
tgaaaagggt cgccataaga ggataaatga catctttgaa catgtgtctg a 351

<210> 44037

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-C2

<400> 44037

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aatttaccac aggtggaaca aataggtaat cttcaagatg aaagacaaga tcgctacaca 120
atgcacacaa tagctcaggc tcatgtgtgt gttgcattcc acagtctcat gcgcatgggt 180
acttacagaa gttcatgaaa agacacg 207

<210> 44038

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-C3

<400> 44038

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tgctcctccg gctggtgtcc gtcaaggccc ggcgggtcaa ccagaggtgg aacgacgtgt 120
tcgacgagct catccaggaa cacgtgcaga gcaggccctt cggcgagagc gaggagagcg 180
aggcggactt catacacgtt ctgctctcca tacagcaaga gtacggcctc actacggaca 240
atctcaaggc catcttggtg gacatgttcg aggcaggtat agagacatct tacctgacgc 300
tagagtacgg catggccgag ctcatcaaca acaggcacgt catggagaag ctacagacgg 360
aggtgaggac gacgatgcgc tcgccggacg gcaaga 396

<210> 44039

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-C4

<400> 44039

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agcagaaagt tgatgaatat gttgatttca aggaacttgc ggacatgacg gacggataca 120
gcggcagtga tctcatgaat ctctgggaga ctgctgctta ccgccatata aaggagctcc 180
tgaagataga aagagagagg gtactggtaa cagctctgtc ttgctgctct aaccgaatat 240
ccctgtactg atcctgcaat acacgtcgaa tgaactt 277

<210> 44040

<211> 178

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-C5

<400> 44040

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gatactgcag acgtcaagta taagagacga aacttctaga gtcagggttg ccgatagaat 120
actggcaaga gtgacaactt agattatgga cctaaacttc aaggagcttg acaaaggc 178

<210> 44041
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-008-Q1-K1-C7

 <400> 44041

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 acagcctagc ggcgaggctg tcgccgccgg cgctcgtacc caagagaatt tacaaaagca 180
 atggctacct gctagtgact tgcaatggtg gcctcaatca aatgcgagcc gggatatgtg 240
 atatggtgac tatagcgcgc catctaaatc taacgcttgt ggtccctgaa ctggataaaa 300
 ggtctttttg ggctgacca agtgattttg gagatatttt cgacgtggac cacttcatta 360
 attccctgag agatgagctg atgataggta aagagcttcc tttgaaa 407

<210> 44042
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-008-Q1-K1-C8

 <400> 44042

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 ctgatgcgtg tagagcaaga acagaaagtc acagaggacg cccgtatctt tgcagagcaa 120
 gatgctgctg ctcagaaata tgctgcacat atacttcagg agaagtacga gggagctatg 180
 gcttcacttg ctcaaattga gaacagagca gttatggcag aaactatggt agaggcaacc 240
 attcagtacc aatctagtca gcagaaagca cagcttccat cgccctctcc ttctccaagg 300
 accccaactc gagatgcatc accaggccaa gggaaccaag attca 345

<210> 44043
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-008-Q1-K1-A6

<400> 44043

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ggcatcccaa tagagctgct ggatctaatt actgactgac gggctgtcag gtcatacataa 120

gcatgtggtc ggtgcagata gtgatctgcc aaattctgac tcgtgcccat aggctttgat 180

tgctgagctt gagaagataa acaatggcac atgatataca agaaatattg cgcactacca 240

tgttgatatt gtcataaggg atgattctgt taacatcgga atgaaagctg gagaggctga 300

atgagacgaa caaagttact actactaatt ggagactaca ttgtgacagg gctatcgcat 360

gacgcgggtc gtg 373

<210> 44044

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-D12

<400> 44044

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tcgtgagctg cctctccagt gtgctctgta gccgcgcag atcagtgatg gccttcgcgg 120

cgatgacggc agcggcgggt cttgcgaccg ggccgggcaa ccgtgtgact cggttcgcca 180

agtcgacggc ggcgtcgggt acgcccgtga ggccgggcaa gacgcacgcg cttgtcgccc 240

tggacaacgc catggagcgg cacacgggtgc acgtggtggt ctacctccgc gccgcgccgg 300

gcctggacag ggagcagctc aaggagtcgc 330

<210> 44045

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-D4

<400> 44045

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gcggcagtga tctcaagaat ctctgtgtga ctgctgctta ccgccctgtt agggagctcc 180

tgaagataga aagagagagg gaactggtaa cagctctgtc ttgttgctct aaccgaatat 240
 ccctgtactg atcctgcaat acacgtcgaa tgaacttgat ggggtgtctca ggagcgaagg 300
 gaaaaggagt caaaagacaa ggcggcggcg gcgagagaatt cagaagcccc ggagagttag 360
 aagaaggaga gctcagaaac caaagaagct tcgaagagca c 401

<210> 44046

<211> 396

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-007-Q1-K1-G11

<400> 44046

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 ccaccaccgc ctgcaccccg ccttcacgac ggaatctgc ggccaacccc cctctcgtat 120
 tccttctcgc cgccctgccc cgagcgcacc gtttagaggc cgccaggctc cggcaccccc 180
 gcccgcccgg gctcgcttgg ggtcgggatg ccttgcctgc cgccgtcgtc gctcggagtc 240
 ggcccacggc tgcgtctctt cctccgcgac tacgacgcgc tccagtcctt cgccctcgta 300
 ctcatctacc tncagattgg gtgtgcactg atcggatcac ttggggcatt gttcaatggg 360
 gttcttgagg tcaacctggt gattggtcta ttcgct 396

<210> 44047

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-G2

<400> 44047

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 cctctgatca gggtcccca ggcgagtctc aaagcccat ctccatccgc gccagcggcg 120
 tcgcaacccg cagaccagca cgcgaccctc atgttccggg taggggctaa agcagaggca 180
 ccatcttctg gagagattaa aaattaccgc tttagatctg atgtgccttg ccaccttct 240
 catactgccg taggaggtcc agcttcactc cttcctaagc gcaaaccctt gactgaagaa 300
 gagattgagg ctattatgct ggggggatcc atctgatatc acctcatatg aattggaaat 360

tctaggaaca tcaataagat tgtatgcctg agcttattgc ctttgacctc tgaaagagtg 420
 ttatcgaagc catgtcgata tgtaaggggt tttttttaat t 461

<210> 44048
 <211> 273
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-007-Q1-K1-G3

<400> 44048

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 tttttttttt tctttatttt tttttacggc tggttctttt tgttttgggc tacgtccttt 120
 tttcaattca ctttccaata tttccaattc tcaccactct aaacccccct tctcgtgcaa 180
 atccaagggg tgaacacaca acaggaccgt ccaacgtacc ctcacaagca caaggcgcac 240
 atcgaccaag ccaaaccac aaccaccaca ccc 273

<210> 44049
 <211> 117
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-G5

<400> 44049

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 tatttttggtg tgtttttata tgaatcaggg ctggtctata atccacttca ccttccc 117

<210> 44050
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-G7

<400> 44050

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 ggcagcgcgt caggctctac ggccggggca ccacccctcg atacaagagg tccaagtcga 120

accagtacga gaccacgtcg cttgtgcaga tctgagggggt gaacaccaag gaggacgtcg 180
 cgtggtacgc tggcaagcgc atggcgtaca tctacaaggc caagaccaag agcagtgaga 240
 cccgctacag gtgcatctgg ggtaagggtca cccgttcgca cggcaacttc ggcgttgtcc 300
 gcgccaaggt caagtcgaac ctaccggctg agtctatggg gcgcaaggtc aaaatgttca 360
 tgtaccctag cagcatt 377

<210> 44051
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-H1

<400> 44051

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 agcagaggta gagagggcaa gaatgatgtt gtctatcaat cagcaacacc ggtcatggat 120
 tcgaactcat ccaatcacag gaatgtgcc aagatctgatg tgaaaaacag cggcgtagtt 180
 tcacactcta gagcctggaa gccgaaaacc aattcccatc ctcaggacag ctcagacggc 240
 aagattgctg ttgacgggca agtggattcc catgggtgta ggcttgagat gaatacgtcc 300
 aaagatacaa ttacccatct agtgaccagt agtgaaccga cgaataggag tgatgacaaa 360
 gaggtctcac acagcataca tgaaaacctg gcacgggaag atggtaacca gaaaggtgag 420
 actgaac 427

<210> 44052
 <211> 96
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-H10

<400> 44052

gtcgaactac atgtctgctg ggcagatata tgttcctatt gtctttaagg gtccaaatgg 60
 tgcttctgct tgaggttctg cccaacactt acaatg 96

<210> 44053
 <211> 316
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-H11

<400> 44053

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gggaagggga aggccggcaa ggacccaac aagcctaaga gggctcccat cgctttcttc 120

gtgttcatgg aggaatttct caaggagttc aaggagaaga accctaagaa caagtctgtc 180

gctgctgtgg gaaaagctgc ttgcgacagg tggaaatccc tgatcgagtc tgacaaggct 240

ccctatgtat ccaaagctaa caagctcaag ctagagtaca acaagggcat cgcagcctac 300

aacaagggct atagca 316

<210> 44054

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-H12

<400> 44054

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acagtttgta gaaaccagtg atacaagtgt tgccaaagtt ctatttccag gtattacgtc 120

cgaggagaaa tttgtgggcc tcgttaaaag cgagccagag aagtttgaaa agttcgatgg 180

gaaatttgaa gaaaaggaaa ttttgcggtt tgtggagctc aacaagtttc ctctaattac 240

tgtattcact gagtcaatt ctggtaaagt atattcaagc cctattaagc tacaggctct 300

cacctttgca gaggcttatg attttgaaga tctggaatct atggttgaag aaatagccag 360

agca 364

<210> 44055

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-H2

<400> 44055

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ccagggttttt tcagggtcgag agtgggggctt tctatcaatc atcaacaccg gtcattggatt 120
ctaactcatc caatcacagg aatgtgccaa tgatcttatt tgaaaaacat ctacgaattt 180
ttcacactct ataaccttga agccttaaac caatttccat cctcatgaca tctcatactt 240
caatattgct tttgtctttc atatttattc ccattctttg tatcttttaa ttaatacctc 300
caaattattct attacctcat ctatttacca ttattt 336

<210> 44056
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-H3

<400> 44056

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gaaatcactt gttgtgtcaa agaattgtaa ctctcccgat catcaattcc tacctctccc 120
taaaagagct agaactatcc ttgtcactag aattcatgct agcaatttgt ggtaccagtg 180
tagatgatgg tcaaaccaat ggatagagta cacgtgtaat atcacaactg caattcaata 240
tccctgacga ggaccacaat ttttgatgcg a 271

<210> 44057
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-H5

<400> 44057

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tcacagggtat gtgccacgat ctgatgtgaa aaacatcggc gtaacttcac actctagagc 120
ctggaaacct aaaaccaatt cccatcctca tgacagctca gacagccaga atgctgttga 180
cgggcaacgt ggattcccat ggtggtaggc tttgagatga atacttccaa agatacaatt 240
acccatctaa tgacc 255

<210> 44058
<211> 438
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-007-Q1-K1-H7

<400> 44058

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gagtagctct gaggatactg aaaatatagt ctttcatgta ctaactgatg ctcaaaattt 120

ttatgccatg aagcactggt ttgcaagaaa ctctacagg gaatcagctg tgaatgtcat 180

aaattatgaa caaattattt tcgagaattt ccctgagttt ggaaccagc agttatattt 240

gcctgaggaa tttcgtgttt tcatcagtag ccttgagcgg cctactgaga agagtagaat 300

ggagtattta tcagtgttca gtcactcaca tttctttctt gcagaaatat tcaaagattt 360

aaagaaagta attgtgttgg atgatgattt ggtcgttcaa catgatctct ctntcttggg 420

gaatcttgat atgggaga 438

<210> 44059

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-A1

<400> 44059

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aatttaccac aggtggaaca tataggtact cttggagatg taagacaaga tcgctacaca 120

atgcacacaa tagctcaggc tcatgtgtgt gttgcatccc acagtctcat gcagcatggt 180

tacttacaga tattcatgaa tagacacgtg cacttgatgc ttctgggatc ttcttactgc 240

ctagaggacc gagctctact ttgtacagac tgcgatgatg ctatacacac agtgaatttc 300

tctggatcag tacatcagag at 322

<210> 44060

<211> 348

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-008-Q1-K1-A10

<400> 44060

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caccaccgcc accaagcccg ggccgaataa ctctgccggg caaccgccgc ccttcgccgg 120

caaagaacgc ccaccagatc caccgccggc tgctatggag tccgcggtga acccgaaggc 180

gtaccgcgtg gctgatgcgc agctgacgat gggatcctc gatatcatcc agcaggccgn 240

caactacaag cagctcaaga aaggagcgaa cgaagcgacg aanaccctga atagggggat 300

atcggagttc gttgtgatgg cggcggacac ggagcctctc gagatcct 348

<210> 44061

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-A11

<400> 44061

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agtgaacacg aacaaagcag acacgcattt tgatcctctg ctgcctacag tttgaaacac 120

atgagacgag acaggacgac gacccatgtg aactcacgc gtgcagtggc tcacatcaca 180

tgcatgagag tgataatata ctggagagca aggctactga gcgaagcaaa cggctaata 240

acaacaacct aacgacaatg gcggttgac acacgacggc gacggcgaca tgaaagaaa 300

cacaacacag gccgcgagat ggcgcgacga ccccatgttc gcacgcacac acacgtgcgg 360

gttacagtag atgattctc 379

<210> 44062

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-A4

<400> 44062

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tgctccaaa tagttctccg tgtgtgggtt cttgcggatt gcgctgtcag gtccacataa 120

tattggggac ggtgcagagt gtcctccgtt ttttctctc tcgcacctaa agttttcggg 180

agcagttagt tagagtatat tcgattcccc ctgatatagt ttgtttatTTT cactactacga 240
 agtctatgca ctcgagagaa aaatcactgg tagcgacggc atcaattctt gtgacgttta 300
 gtggctagaa caccctcact agcgcctcatt catgtttacc cgaccttgTC cttttccctt 360
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<210> 44063

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-G10

<400> 44063

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 ttatgtttct agtcgtccac ctactagtcg gacgactaat cgtcatcagt caatgattaa 180
 tcagatggcc ataaactaat caacttattg agttttatct cccctgcgaa catccccctg 240
 tctaactggT taggtgatgt agtagcaaac tctcatgttc tgagttcaat tcctagtgga 300
 agctaatttt cata 314

<210> 44064

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-008-Q1-K1-A5

<400> 44064

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 gcacatgggtg gctgttgata atgatctgca aaattctgac tcatgggcat tggctttgat 180
 tgctgagctt gatcagttca agaattggcaa agatgggttca agaaatattg tgaacaatcc 240
 tgttgagatt gacataatgg atgatttcct tgagatggaa aggttagctg cattgcctga 300
 atcagacggc acaagctcta actttgaaat ggaaacggat tctgacaagg ccatcgcaag 360
 aagcggctcc ttgaaaatca aaagtgaaga attgcaaaac aaggtcgcca atttgc 416

<210> 44065
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-C4

<400> 44065

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 tagctcaaat gaaaatggag gtggagagct tgggtagaga gtatggagac cacagagtac 180
 gacgatctcc tgcaaagaat tctagtttcc atcggcccat gtctcctatg tctcctgttc 240
 ctgattacgc aatcgagaac atacagtaca tgcagagaga gaatgagttt ctgactgctc 300
 cgttattaac aatggaagaa gaaaccaaga tgcttaaaga ggcattgacc aagcgaaaca 360
 gtgagctgca atc 373

<210> 44066
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-C6

<400> 44066

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 ggctgaatgc caaggattac gggggccttg tcgaaagaag ttaccttgct ctgcagcact 120
 agctcaaattg aaaatggagg ttgagagctt gggtagagaa gatggagacc acacaatacg 180
 acgatctcct gcaaagaatt ctaattttcca tcggcccatg gctcctatgt ctctgttcc 240
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<210> 44067
 <211> 254
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-C8

<400> 44067

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aactgaaagg atcatgttgc tggacatatt ggttcaagag tattgacacc acaaagctct 180
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<210> 44068

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-D2

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actggttgtc tctagttgca gttcatagtg atgcatggct cctgtctgtt gcattctatt 180
ttggagctcg ttttggattt gacaaagatg ccaggagaag gctcttcacc atgattaaca 240
acctgcccac tgtttatgaa attgtgacgg ggggttgctaa aaagcaatcg aaagccccc 300
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<210> 44069

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-D3

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tccaaggaaa gtagtggtta cacagataac tctgtgaaac tgcaacatgc agaatcgaaa 180
ttatcagatc ttcgaactac actggcagcg ttaggaagag aagcaactgc agctatggag 240
gctgtagagg ctcagcaaca gcaagttacg tatgaacgct tccttgcaat ggttgatgct 300

gagaggacat atcatcaaaa tgctgctgat attctgaata aactccatga tgagatgctc 360
tatgcaaagc atcataatga gtcagcaaac cacta 395

<210> 44070

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-D4

<400> 44070

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agcggaatgc caaagattac gtgggggttgt tcgaaagaag ttacctgggc ctgcagcact 120
agctcaaatg aaaatggatg tggagagctt gtgtattaga gtatggagac c 171

<210> 44071

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-D5

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aatccaagg aaagtagtgg taacacagat aactctgtga aactgcaaca tgcagaatcg 180
aaattatcag atcttcgaac tacactggca gcgttaggaa gagaagcaac tgcagctatt 240
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<210> 44072

<211> 182

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-D6

<400> 44072

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gtcaaaaaag actggttgct tgatagctgc agttcatagt gatgcatagc tcctgtactg 180
tg 182

<210> 44073
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-D7

<400> 44073

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tccaaggaaa gtagtggttaa cacatataac tctgtgaaac tgcaacatgc aaaatccaaa 180
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<210> 44074
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-E5

<400> 44074

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ggatacgaaa acccaccaaa ccctaaccct agctgcagtg ccactaccgt ccgcttgccc 180
gggctacgga gaggaagccg acccaagcaa cgatgccgaa cgggtcagcg acgcaatttg 240
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aggaggagct agtctagctc 320

<210> 44075
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-E7

<400> 44075

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atcgttagac ggaccgccgc tatacgaaaa cgcacctaaag aattactcta gctgcagctc 180
cactaccgcc aattcagccc ggtctcctga caggcagcag actcgtgcta cgatgcctgc 240
cgatttaacg gcgctgtttc gatacacgca gacgccgtcc aatgtgctgg acctgctg 298

<210> 44076
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-F12

<400> 44076

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tgtttctagt cgtccacctg ctattctgac tactaatcta catcagtcaa tgattaatat 180
tatggccata aactaatcaa cttattgagt tataatctccc ctgcgaacag cccctgatct 240
aactagttag gtgatttagt atcaaactct catgttctta gttcaattt 289

<210> 44077
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-F2

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ttacacagta ttgattgatg gacggtgcaa agcagaatat ctagaggaag caccaggatt 180
gtttgatgag atgttagcaa aaggacttat ccctgatgtt cacacataca cagctcttat 240
aatgggatac tgtagccagg gagaaatagc taaggctgaa gatcttttcc aagaaatgat 300
agctaaagga atgaagccag atgtactgag cttttcagta ttacataaga gaaccttgag 360
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gactg

425

<210> 44078

<211> 363

<212> DNA

<213> Zea mays

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tgcaaggttg tggaggtttc tacctcaaag actggttaagc atggccatgc caaatgccac 180

tttgttgcca tagacatatt caacgggaaa aagctcgaag atattgttcc ttcggcacac 240

aactgtcata ttccgcatgt gaaccgtact gagctccagc tgattgatat atcacacgat 300

ggatttgtga gccttcttac ttcagatggc aacacttaag atgatcttag actcccaact 360

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<210> 44079

<211> 178

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-F5

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gtaaacccca ttaaaggctc actgcgaatc cttcttttgg ggtgttgagt tgggggac 178

<210> 44080

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<212> DNA

<213> Zea mays

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<400> 44080

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aggacctttt ttcttaagag gaaggttaat gtgggactga ggtcggtgaa agatatggaa 120
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 ctaaaagaag caccaatgat ttttttatga aattttaaca aaaggactta tccctgatgt 240
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<210> 44081

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-C3

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 cgttacctgt gcctgcatca ctagctcaaa ttaaaatgga cgcagatagc ttggctagag 180
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 tgtctcctat gtatactgtt tctgattact caatcgagaa catacaatac atgcatagag 300
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<210> 44082

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-F7

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 cgactccatc atggaacgta accctaggtg gaaccagctg ccggttccaa aggaggcgct 180
 gtacccatgg gacgacaggt ccacctacat ccgcaagcct acgtacctgg agggcatgtc 240
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<210> 44083

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-F8

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ccctgtgata atgttccccg ggcgggggct caaagcccca tctccatccg cgccagcggc 120

gtctcaacct gcagaccagc acgcgacct catgttccgg ttaggggcta aagcagaggc 180

accatcttct ggagagatta aaaattaccg ctttagatct gatgtgcctt gccacacctt 240

ttatactgcc gtatgaggtc cagcttcaact cttttctaag cgcaaaccct tgactgatga 300

tatagattga tgctattatg ctgggggggat ccattctata tcaccttata ttaattggaa 360

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<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-F9

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tgtgagggaa ggctgaccag ttttgtgggt tttccccctt cactgttggt ttcagtaagg 180

taggatggaa aacatattaa acaaaatcga tctgttgtat caggatgtta catatataat 240

aataaaaagg ctaataaagt tccatgattt gagatgactc atcaaagaaa ttaatt 296

<210> 44085

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-G1

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caagccaaga tatctatgag gttggggagt ccagcgtgca tacttacctg ttcaagaaag 120

tgtactactt catcatggaa cgtaacccta tgtggaacca tcttccggtt ccaaaggatg 180
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<210> 44086

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-H9

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ctcaaggcgc ccgggggcgc gcccgccaac gtcgccatcg cggctctcgc cctcggcggc 240
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<210> 44087

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-A1

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cggcgccgct gatcgacgcg gctgagctgg ggtcctggtc gctgtaccgc gccgtgatcg 180
ccgagttcat cgccacgctg ttgttcctgt acatcacggt ggccaccgtg atcgggtaca 240
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<210> 44088

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-A2

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ttatgccatg aagcactggt ttgcaagaaa ctcctacagg gaatcagctg tgaatgtcat 180

aaattatgaa caaattatct tcgagaatct ccctgagttt ggaaccagc agttatattt 240

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ggagtattta tcagtgttca gtcactcaca tttctttctt gcagaaatat tcaaagattt 360

aaagaaagta attgtgttgg atgatgattt ggctgttcaa catgaactct ctttctttgg 420

gaatcttgat atgggag 437

<210> 44089

<211> 390

<212> DNA

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<223> Clone ID: LIB3076-007-Q1-K1-A3

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<211> 328

<212> DNA

<213> Zea mays

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<210> 44092

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-A7

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<211> 294
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 <223> Clone ID: LIB3076-007-Q1-K1-A9

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 <212> DNA
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 <223> Clone ID: LIB3076-007-Q1-K1-B1

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 aagcctcaag gatgctttca gcaaattcgg caacctcact gaggcaaagg tggttcttga 240
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<210> 44096
 <211> 336
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<213> Zea mays

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tgacggcgga caagaatcgc aacatcgcg cgcgcgcgc gccatcgag aaggcggcct 180

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gcttcccaga gtacgcggag gacattgaag ctggcggaga tgcggcccct tcattttcaa 300

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<210> 44098

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-B5

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 <213> Zea mays

 <223> Clone ID: LIB3076-007-Q1-K1-B9

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 aacaagaaat aaagaaggca tatcaciaaat tggctctgcg cttcatcca gataagaatc 240
 ctgggggatga ggaagccaaa gagaagtttc agcagctgca gaaggttata tccattcttg 300
 gagatgcaga gaaaagagct ttatatgatg agaactggca ttactgatga tgatgactg 360
 gtgggagaag ctgcaaatga tcttcatgag tacttcagaa caatgtgcaa gaaggctact 420
 gaggtgaca ttgaag 436

<210> 44102
 <211> 307
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-007-Q1-K1-C1

 <400> 44102

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 ttatgcccac gattgaccag ggtgaaaagg atgacaagat aatagcagta tgtgctgatg 180
 atcctgaata ccgtcactac aacgacatca gcgagctgtc tcctcaccgt ctgcaagaga 240
 tcaagcgctt ctttgaagat tacaagaaaa actagatctt agaagtcgca gttgatgcat 300
 tcttgcc 307

<210> 44103
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-006-Q1-K1-H7

<400> 44103

ggggagccgg aggtagaaag accagagaat atggctacca ccgagccggc tgcggtgagg 60
ctggtgggct ccttcgccag cccgttcgtc caccgcgccg aggtggccct gcgcctcaaa 120
ggggtgccct acgagctcat tctggaggac ctgggcaaca agagcgagct gtttcttgca 180
cacaaccttt tgcacaaact tgtgtccgtt ctttttcacg gctacagggc cattttctag 240
ttgctttgat attctata 258

<210> 44104

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-C10

<400> 44104

gattcaaate cctcttcac caaaaattgt acccaagtgt taccatgatg actgtggagg 60
gaaagccaga tgtgaggtag aatgatgttg gtggctgcaa ggaacagatt gagaaaatgc 120
gtgaagttgt tgaacttct atgcttcacc cagaaaagtt tgtaagctt ggtattgatc 180
ctttaaaagg cgtgctttgc tatggcttac ctggcactgg caagacactt cttgcaagag 240
ctgtagcaaa tcggactgat gcttgtttca ttcgtgtaat tggaagttag ttagttcaga 300
agtatg 306

<210> 44105

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-C12

<400> 44105

accacactt ccgccacgc gttctcggac tcatgggggt gtttccatgc ttactgcacc 60
taacaaacta cagggattaa tacattcggg ttaggcttaa tccatcatat agtgtggact 120
aatgcttggt ggagcagttt cttgaactgt actccattgt gtctgttcga tccacttaca 180
ctctcattct gactgtgta tggtatcatg acaatttttc tgtatacata tttttttaa 240
tgatctctta cagctttcct tatcaaaact cgtatgactc ttaagcttat taggagggt 300

aactgacaat ttatt 315

<210> 44106
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-007-Q1-K1-C2

<400> 44106

aattccccggg cggacccact cattcgattt actctgttcc ttaccttcgt ttgagttcgt 60
ggtacttgat cctgttagtg gtctgggtag actagatccg agggagggac tggtttattcc 120
catttaagtg tggactagcc tctaatacat gacctatgca cttatgttgg aataatttct 180
acagttctct tacatctggt attgaatcta gtaccatctc tttattaatc aatatactat 240
atataaccatt ct 252

<210> 44107
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-006-Q1-K1-E9

<400> 44107

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cggcgatggg gcggctgacc gaggagcagg cggcgcgcgga ggcgggctcg gcggggacca 120
acgccacgtc cctcaagctc acacaccgag ctctctccga cgtgtcgtgc ctgagcagct 180
tcaagaacct ggagcacctc gacctcggt tcaactgcct cgtcaccctc gagggtttgt 240
cctcctgtgc caatttgaag tggctttcgg ttaaggaaaa caagcttgtg agcttaaaaag 300
gtgttgaggg gctctcaaag ctgcaggtac tgaatgctgg caagaacgaa cttacaaaaa 360
tggaacgaggt cacatcttta acaagcctgg gagcatngat tcttaatgat aacaatattt 420
ctttcatct 429

<210> 44108
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-F11

<400> 44108

gttccaactc ctgagcactt tctcctcgtc ccagacaagc caatcgaagc cgagatacga 60
ccatggactc caccggcacc ggagcagggg gtaaggggaa gaaggagcg gccgggcgca 120
aggtcggcgg gccaaaggaag aagtcggtgt cgagggtccgt gaaggccggt ctccagttcc 180
ccgtcggcgg catcgggcgc tacttgaaga agggccgcta cgcgcagcgt gtcggcaccg 240
gcgcccccggt ctacctcgcc gctgtcctcg aatacctcgc cgctgagggt ctggagctcg 300
ccggtaatgc tgccagggac aacaagaaga ctgcgattat tccgcgccac gtgcttctgg 360
cgatccggaa cgacgaggag cttgggaagc ttgttggc 398

<210> 44109

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-F2

<400> 44109

gctataacac ccacaggaat tcctccaagc tttgctctgc cagtaaccac tgtttttgcc 60
catccttcaa atgtctccac aaagctgtct ttgtcaaaca taccacccaa ccatttccct 120
tggtgtcat ctacaccacg gatggctgca cgcggatcgc atgtgttctc agggatgtat 180
gcgacaggtc tatctggagg gtccaaagggt ttggtaatag gaagagggtcc accaatgttt 240
gcaggaacat agctgagcca cctcaatata ttggaaacac cttcaagatc atctgaaacg 300
gtcaagtgga caacaccatt ggctgccatg atcttaggac caccagctg catgtgggag 360
ctgtacactt ctgcccgaag gagc 384

<210> 44110

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-006-Q1-K1-F4

<400> 44110

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 tcaaacatga gctagcaaat gcctccccgg acctcatcaa caggcttgta ccggagcaca 120
 ttagacggca gaacggtgtc aactttgggc atatcgggag ctaggagggc aggcggctgc 180
 catggtctag tttttggtct tggtagccca tgtgcagggc cggttgcagg tgaaggtgat 240
 attgctgcac catctgggag aggaggggct cagcagtacc tgagagagct gaaactatgt 300
 aaattatctg accgcgaagg agtacggcca gtgttaagcc agtaaactgg cgcattgttg 360
 tccagagtag ttaaggtaag aatgtanccan gtggagactg gt 402

<210> 44111

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-F7

<400> 44111

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 ctgccggaca gctcctccgt ggcaatgccg gaagttgtcc tctgactttg cacggtgaaa 120
 tgagagtgca tgggtccgtgc atcgtagctc cgaggagaat ctgcttgggg gaagaagcgc 180
 taagctatga ttggacccgg gcgtggggat tgctgcttga ttcgccgtct tggcggcagg 240
 tcgtcgtgtc gcgcagcccc agcccagcca gaacgattcg cttctctgag ttgcccttcc 300
 aagtggccgt gtcgtagctt ccatttgttt ttcccctgta tttttacaag ctgtacatat 360
 tcgagcggcc gagttcttcc atgctgcctg aattggtttt gggcgatctt tg 412

<210> 44112

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-F8

<400> 44112

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 ttgttttaggc ggcaaccgcg aggcgcaatg gcggccgggc gagagctggt ggtgagtttc 120
 ggcgagatgt tgatagactt cgtgcccacc gtggcggggg tctcgctggc ggaggcggc 180

gccttcctca aggcgcccgg gggcgcgccc gccaacgtcg ccatcgcggt ctgcgcctc 240
 ggcggggggg ccgtctttgt cggcaagctc ggcgactact agttcggccg catgctcgtc 300
 ctcattcttc 310

<210> 44113
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-F9

<400> 44113

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 ttatatattt tttaatttta ttataattta gtggaatttt tttatttttt tataaataaa 180
 ataatgaggt ttttaatttt atatattttt ttttattttt ttatttttatt atatatttta 240
 tttattttta ttgttatata atttttttta ttgtttttat tttttaaaatt tatttttattt 300
 gttaaaatttt atttttttta tttatatatta tttggattta tattattttt ttatttttatt 360
 tttggtttta attttatttt attttaatgt attttatttt ttatattatt ataataatttt 420
 ttt 423

<210> 44114
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-G1

<400> 44114

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 ctacacaact caagttctgg ttttcacgtg gctgtcgtgc ctgatttcag tctcggtgaa 120
 cttcagcact tttctcgtga tcgggaagac gtctcctgta acctaccaag tccttgggcca 180
 tctgaaaaca tgcttgggcc tcacctttgg ctatgtcctg cttcacgacc cgttttagctg 240
 gagaaacata cttgggatcc taatcgcggt aatcgggatg gttctgtact cgtacttctg 300
 cactagagag actcagcaaa aaccagcaga agcctccccg caagccgttc aggcaaagga 360

gggtgaatcg aaccgctga tctcggactc cctgagcgct gccgaaaat

409

<210> 44115

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-G10

<400> 44115

aaaaaaaa atataagaaa aaaagaaaat aaaataaaaa taaaaaaaaa agaaaaaaaa 60

aaataaaaaa aaaaaaaaaa aaaaaaaaaa ataaagaaaa aaaaaaaaaa aataaaaaata 120

taaaataaaa aaaaaaaaaa taatataata aaagaataaa taaataaaaa aataaaaaaaa 180

aaaaaaaaaa aaactaaaaa ttataaaaag aaaaaaaaaa taaaaaaata 230

<210> 44116

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-G2

<400> 44116

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actcctcctc cttcgacaac ccgtcgcagt agcgtccgtc tctggtgtcc ggctgtccgg 120

ctctggactc ccgacctcga catcaggatc tgcgcctccc gaccggtatg tgggggctct 180

gaagaagggtg cagaaggatc tgggcgcgtc ggtgttcgag ccgctggtgc aggcgtacgc 240

cgccgtcggg aagttccctg ggatgtggca ggggctgaag atcgagaacg tggagggtcgg 300

ggaggggacg gccagctgc ttgactctat ctgcgccgat caataggtgg ttttcttt 358

<210> 44117

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-G3

<400> 44117

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ggaaatacca ctacatcctg tacattattg tcctggcaat gcagcccagg atgcttttga 120
 ctgtcgacga ggatctgaag cccctgtcag tacctgtccg cgtcgggcaa gctgtcgacg 180
 tggttgggtca ggcaggaagg ccgaagacaa tcaccggctt ccagacacac tccacgccgg 240
 tcttgctcgc agcaggggag agagctgaac tggcaactga aaaatacatt cactgaccc 300
 cagtactaga gggctttgtg attctgaaga agaaccaga gtaccacgaa gagtgaagac 360
 ccagatagca tattggtg 378

<210> 44118

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-G9

<400> 44118

gccgccgtca tgtcgaagcg aggtagggga ggttcggctg ggaacaagtt ccgcatgtca 60
 ctgggtctac cgggtggcggc cacggtgaac tgcgcggaca acacggggcg caagaacctc 120
 tacatcatct ccgtcaaggg catcaagggc cgctcaacc gcctcccgtc cgctgtgtc 180
 ggcgacatgg tcatggccac cgtaaagaag ggaaagcccg acctcaggaa gaaagtgatg 240
 cccgccgtca tcgtccgcca gcgcaagccg tggcgtcgca aggacggtgt ctacatgtac 300
 ttcgaagata atgctggagt gattgtgaat cccaagggtg agatg 345

<210> 44119

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-H1

<400> 44119

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 tctggaagtc ggcattcccgg cgctgcttga ggatgggatt aacgtgctta tatacgtgg 120
 ggagtatgac cttatatgca attggctggg aaactcgaga tgggtgcact cgatggaatg 180
 gtctggccag aaagacttcg tatcctcctg tgactcaccg tttgtagtag acggtgcaga 240
 agctggagtc ttgaagagcc atggaccact gagcttcctc aaggtccaca atgcggggca 300

catggttccg atggaccagc cgaaagctgc cctggagatg ctgaggagat tcacgcaagg 360
gaaactgaag caggaaccgc tccctgagac 390

<210> 44120

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-H3

<400> 44120

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gtgaaagaga gtaggtggac ggacgggtgct ggcatcgcca attcaactcc gcatctgcat 120
cggcagcgcg ccagctccat agtgtaggag gagatggcgc tcacaagaat cggctcttgct 180
ggccttgctg tcatggggca gaaccttgcc ctcaacattg cagagaaagg gttccccatc 240
tctgtgtaca acaggacaac ctccaaagtg gacgagaccg tgcagcgt 288

<210> 44121

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-H4

<400> 44121

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gggtcgaggc aatgaggacc gtgtaacact catcaaggac taccgtggca agattgaaac 120
tgagctcacc aagatctgtg atggcatcct caagcttctc gaatctcacc ttgtgccgtc 180
ttccaccgct cccgagtcca aggtcttcta tctcaagatg aagggtgact actacagata 240
ccttgctgag ttcaagactg gagctgagag aaaagacgct gctgagaaca ccatgggtggc 300
atacaaggct gcccaggaca ttgctttggc tgagcttgct ccaactcacc ctattaggct 360
tggactggca ctcaacttct cagtgttcta ctatg 395

<210> 44122

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-006-Q1-K1-H5

<400> 44122

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naaagagggg gttttaggaa gtgaggaggg ctttactctc atcaaggact accgtggcat 120
gattgaaact gagctcacca agatctgtga tggcatcctc aagcttcttt aatctcacct 180
tgtgccgtct tccaccgatc ctgagtccaa ggtcttctat ctcaagatga agggtgacta 240
ctacagatac cttgctgagt tcaagactgg agcttagaga aaagacgctg ctgagaacac 300
catgggtgggt tacaaggctg cccaatacat tgatttggct gtgctttgtt ccaactcacc 360
ctactaggct tggactggca cttaactttc tcagtgttt 399

<210> 44123
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-E8

<400> 44123

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tctgttgccg ttaaataatca ggaagagatg ggctgattat tttaaggcac atgacattct 120
ctatgtgttc tggtcggcta aggctgccac tgccacatta gaaggcaaaa agttaagtgg 180
atactctgaa ggagaatctg cttcacttga tttggatacc aagatatatg aaagggatga 240
actcttgatg aagctgcaag ctgaggcaga atctattgta gctcagagga ggatctcacc 300
tactgtagat gatcacgaag ccagttcttc agattctgtt tcttcagtga ctaaakatgt 360

<210> 44124
<211> 55
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-B12

<400> 44124

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<210> 44125
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-006-Q1-K1-B2

 <400> 44125

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 gagttgggtcg taccgcacgt ggtgagaaag gcaaaggaag tgcattgctg ttcttactac 120
 cagaagaact gaagtttcta atttacctga aggcggccaa ggttaccctg acggaatatg 180
 agttcaatca gaagaatgtg ccaaatttgc aatcgcagct tgagaatatt gttggtgaga 240
 attactttct gaaccagtct gccaaagaag cctacagatc ctacgttttg gcatatgact 300
 ctcatcttat gaaagacatt tttaatgtcc atcaacttga tctgcaaaaa gtagccgcgt 360
 c 361

<210> 44126
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-006-Q1-K1-B3

 <400> 44126

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 gctaccgcgc gcacccgctg gccgccatga aacgtcgggc caccgcgcag ggcgagccgt 120
 gcctggccac gctgcgttgc cgggggtatg ggcgggagct cgagtacgac cgcgttgagg 180
 ctgccgaggg gctgctgtgc atgggtgtca gacaaggcga ggggagtga ggaaccccaa 240
 gttcccgggt gcatgcagat cgcaaattat gcgcaggaga gaaaatagga agtgggaagt 300
 tctttcctct atttttctca accgcacaag atgcaccagc gcaaggaaaa tttgcatgcg 360
 ttcatgcgcg aagtggggct tcgcaggggc gggcgccctc ccatgctctg gtgatg 416

<210> 44127
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-006-Q1-K1-B5

<400> 44127

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ttggcaagga tggcgcatcg cacaagaagt taaatgccag tgggatctat acagttgaag 120
atttcctccg gcttcttgtt agggatcagc agagattacg tagcattctg ggcagtggaa 180
tgtcaaataa gatgtgggac agccttgttg agcatgcaaa gacatgtgtc ttaagtggaa 240
agcattatgt atactatgct agagactcaa gaaacgtggg tgcaatattc aataacatct 300
acgagttcac tggtttgatt gccgatgac agttcatttc agctgaaaat ctacagaca 360
accagaaggt ctatgctgat g 381

<210> 44128

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-B6

<400> 44128

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tgggaagtga taacttagag cagagagcag cggagagctt tgacgagcct ttgctccctg 120
aggatgaagga ggagaaaacc aggaggagcc aatttgtgca ggggcttgtc ttgctccctga 180
tgtttgatga catcttatga agagcacatc caaaagggg aagggagaag gcatattttg 240
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gatggtgaca ttgctctggg ataatggggg agatgaactg tggatatgga tgtttcgtag 360
tactatgcat catcattgca tgaataatag agtatatgta tgtatagctt ggtagca 417

<210> 44129

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-C1

<400> 44129

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gctaccgcgc gcagccgctg gccgccgtga aacggcgggc caccgcgcag ggcgagccgt 120

gcctggccac gctgcgttgc cgggggtatg ggcgggagct cgagtacgac cgcgttgagg 180
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gtttccggtt gcatgcaaatt cgcaaattat gcgcaagaga gaaaatagga agtgggaagg 300
tctttccttt atttttctca accgcacaag atgcacc 337

<210> 44130
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-C10

<400> 44130

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aagcgtccgc aactgctcaa gtactaccag ggcgtgattg acaacatgta caaaagtgtc 120
aagtgaactc actctacagt acacatcccg atgaagattc ccaacgctga atcttgaatg 180
agcagccaga agttctgctg tgtatatgct cgtagtttgt atgcgagaat tcttcctgta 240
tcagtttttc agaaacgatt tgccctgggc atatatatat agcaaaaccg gcaatgtggc 300
cagcagccaa gtggagacac cgtttcaaaa ttgattgaac 340

<210> 44131
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-C3

<400> 44131

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ttccccggtc tccctcctgc ccatccctgc acgccccttt tcatgcgcga ggaggggccc 120
tggggaccac caccagcacc tccatccgcg cgcattctgc ggtggtgctc ctctcctcc 180
tccccctgct cccggggcgg gcgctctcct gttcctcctc ctctgctgc tggtgccagg 240
gccgggaggg cggcgtggag gtggcgctca tggggctcgc cggggacggg tcggcggaca 300
ccgccaacct cagtaatagt gaaaatggtc ggttcagtta tggagttgca agttcttccg 360
ggaaaag 367

<210> 44132
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-006-Q1-K1-C5

 <400> 44132

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 gagagcatca acaacaagct gcagctggtg atgaagagcg gcaagtacac cctgggctac 180
 aagaccgtcc tcaagacgct ggcgaactcc aagggaagc tgatcatcat cgcaaacaac 240
 tgccctccac ttaagaagtc tgagattgag tactacgcca tgctggccaa agttagcgtg 300
 caccatttcc acggaaacaa tgttgatctt ggcaactgcct gcggcaagta ctac 354

<210> 44133
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-006-Q1-K1-C6

 <400> 44133

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 tgcagagatt ctgttttcag agactactaa agcagagagg gagcttaact ggaaagcaaa 180
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 ctatggatca cctgactcta tcaa 264

<210> 44134
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-006-Q1-K1-D10

 <400> 44134

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ccgtctcgct cttttcacca tggatcaatc ggcagctgca cctccccggc aagacgctgc 120
 tgcgacgaag aagccgacga cgctcctcga cgcgtacgag gtggagtgca tccgccggga 180
 gctgcagcgg ctcgtcctga agcacaacca gagcgtgcc gccgggggcg acaccgccgc 240
 ggcagcgctt gcgcacggcc accgccgcag cgacgacagc cacctccacc accagcagca 300
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 gtcgctg 367

<210> 44135
 <211> 352
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-006-Q1-K1-D11
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 tccccgagtt catgtgccag ggcggcgact tcaccgcgg caacggcacc ggcggcgagt 180
 ccatctacgg cgagaagttc cccgacgaga agttcgtgcg caagcacacc gcccccggtg 240
 tgctctccat ggccaacgcc gggcccaaca ccaacggctc ccagttcttc atctgcaccg 300
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<210> 44136
 <211> 288
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-006-Q1-K1-D5
 <400> 44136

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 atgtgggggt taccgtcact catttctgat cgctactgtt ctgcgcctgc ctgtctgggg 120
 cagtcattgg ttctctgacg tgcttcttac tatttctgtg atcctcttct attttttttt 180
 ttccattata tagtttcgtt tcttatatat gtttttttat tttttttttt ttttttatat 240
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<210> 44137
 <211> 242
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-006-Q1-K1-D7

 <400> 44137

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 tcgctagcct ctatgaccgg acctaaactg gtgtgtgaga aacatccacg actctcctcc 180
 caactgtttt cctaaagcga aatgataaca cttcttaata attgtctata cgattgaagc 240
 tg 242

<210> 44138
 <211> 353
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-006-Q1-K1-D8

 <400> 44138

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 gcaagcgctt ccgcgacctc tcccgctggg aggcctcgc ctccgaactt ctgcgcgcgc 180
 ttcccgctcc cccgccaccg gctccgacat cccaatcccc tcccgctcgt gcctcctcct 240
 cctcctcctc cttggtctct gtcctcgacg agctcctcgc acaggctgac attcaagttg 300
 agctgatgaa gaaagtgtgc cagtgggtgc acgaggccaa ctctatctgc gac 353

<210> 44139
 <211> 61
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-006-Q1-K1-E10

 <400> 44139

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<210> 44140
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-A5

<400> 44140

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tggggcacca gcaacgagtc gctggagaat gccttcgcct cctacggcga gatcctcgac  180
tccaagggtc tcaccgaccg ggagacgggg aggtctcggc gcttcggctt cgttaccttc  240
tctctcgaga actccatgct cgacgctatc gagaacatga acggcaagga gctcgacggc  300
cgtaacatca ccgttaacca ggcccagtcg cgtggcggtg gcggtggcgg cggtgggtac  360
cgcgggcggtc gcggcgggcg cggctatggt ggcgg                                     395

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<210> 44141
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-E3

<400> 44141

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agcggcgaat ttacaactca ctagtgggtg ctgggacata tatgttcagg atagatgatg  180
aacgtgttat agatgccact cgggttggaa gtatagcccg tctgatcaat cactcatgcg  240
agcctaattg ctattcacgt gccataacta ttcttggaga tgaacacatc atcatttttg  300
cgaaacggga catagatcca tgggaagagc tgacatatga ttatagggtt ttttcaagtg  360
atcaacgact tccatgtttt tgtggattcc ccaaatt                                     396

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<210> 44142
 <211> 227

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-006-Q1-K1-E6

 <400> 44142

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 ctgttcaaga agtgactttg ttattatata taatcaaaac aatttatcat atagttactt 120
 ataactacta attcctttct aaatatatct tttttatcat gtttttaatc ttatttatatt 180
 actatactat tatatattat aaatTTTTTTA tttttacttt ttatttta 227

<210> 44143
 <211> 336
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-006-Q1-K1-E7

 <400> 44143

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 tgaagctgag cgacttagat tcttggettct tcttcttgga aaggatgagt attctcaatg 120
 gataactgct agtcagagga gccttcttga agttatggcc gcattccctt cagctaagcc 180
 accactggga gtgttttttg cagcaatagc tctctgctctg caaccacgat actactcaat 240
 ttcacatct ccaaagatgg ctctctccag aattcatgta acatgtgcgt ttgtttatgg 300
 gccttcacca acaagaagga tccactcagg agtttg 336

<210> 44144
 <211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-005-Q1-K1-G11

 <400> 44144

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 gcaatgctta cttctcgctc ataggaggcc tacattttca taccactccc aatgcatttt 180
 attttctgtc tcctatatgt tcctcataaa tatttttgat atttctaaat ttcttatttg 240

gcctttttct accctttttt ttcttcaatt attatttcta aaccccatth ctactattta 300
 tetgttattt catccttatt ctttttacct ccaaaactt 339

<210> 44145
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-G12

<400> 44145

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 ctcttcagcc ttctagtaaa cgaagagaac aaggccaaaa tcggacgatc tggagcaatc 180
 aaacccttgg tcgacctgct gcgagatggc agtgcacagg ggaagaagga tgcagcaacg 240
 gctctcttca acctatcgat atttcacgag aacaagggcc cggttgttga ggcccgggct 300
 gtaaagcccc ttgtggagct gatggacca gcagctggga tggttgaca 349

<210> 44146
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-G2

<400> 44146

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 gccactacca tctgctttgg ttcttcatgg tcattatgct ggttgtgtgg ttgattagcc 180
 tatctataac gcctttatac ttgtagggcc ttattctgtt aggggcttta ataattgtga 240
 actgggcgct tctaggaata ttcttgaagt tgctactgaa ctgcgtgttc ctgtaagaaa 300
 cacacacctt tatgcattat ttgaacatcg gactgacctt gcgagttcca atgatgtcaa 360
 atggaaccct acagaagttt tttatgcgtt gttgttcttg gatctttata tgttgtagtt 420
 gtcaatcttt gtgt 434

<210> 44147
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-G5

<400> 44147

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gaggtggcgg aggatgaggt ggcactaggt ttggactcca cgcacaaggc ggctcaggat 180
gcgatggatg agtgggactc ggccactgct gcggtttcaa ttgatgattt ggatgcatac 240
ctggaacaac tgagaaagga tgtagccatg gcagagcagg ggaatcagaa ggtatctggt 300
gagattagtg tctactgcaga gacaacattc aatgatatga ttcaattgga tgttgggtatt 360
gaaatgctgg agtctttgat ttcgaatctt ggtccaaagg ctttgaacca ttttgatgaa 420
agttct 426
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<210> 44148
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-G6

<400> 44148

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gaggtggcctt aggatgatgt ggcactaagt ttggactcca cgcacaatgc gtttaaagat 180
gcgatggatg agtgggactc acacactgct gccagatcga ttgatgatat ggatgcatac 240
ctgcaacatc tgagaaagga tgtacccatg gtacagcatt gcaatcataa tgcattctgtt 300
gagactagtg tctactgcaga tacaacactg aatgacatga ttcaattgga tgttgggaatc 360
caaatgcttg aatatgtgat tact 384
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<210> 44149
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-G7

<400> 44149

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gaggtggcgg aggatgaggt ggcactaggt ttggactcca cgcacaaggc ggctcatgat 180
gcgatggatg agtgggactc tgccactgct gcggtttcaa ttgatgattt ggatgcatac 240
ctggaacaac tgagaaagga tgtagccatg gcagagcatg ggaatcagaa ggtatctggt 300
gagattagtg tctactgcaga gacaacattc aatgatatga ttcaattgga tgttgggtatc 360
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<210> 44150

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-H1

<400> 44150

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ctgtcttatt gaggggtatg aagtttatgg actggttgtg gacaagagaa gagaaagaga 180
tagctattgt cagtcacagt gggttcttgt ttcacacctt aagcatgtac agtaaggagt 240
gccatccaac cataagatac taagttagca agcactttgc aaactgcgag ctacgggtcga 300
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<210> 44151

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-H10

<400> 44151

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gcgtttggaa cttcataaca tggaaattgc ttacagaaa tttcaagatt tattcagtag 120

tattgggcat gaggaatga atagtttttc agcaatttct gaaaatcagg acgtacagga 180
 tgtgaataat gaacaacatg aaagggttcc aggtacacaa tgtggtctag caaatgagca 240
 taccttggtgta actgcagttg tcaaagaagc caccacacaa aatgtagatc accagttgga 300
 aactgatcca ggcagcatgc aagtacaaag cccagtgcac ttcaagtctg gtgcaatgcc 360
 atctccggag ctagtagctg caaattcaga aaaagc 396

<210> 44152
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-H2

<400> 44152

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 ctggttgccat caagaagctc actgtgtcaa gcttggttaa atctcaagtt gaatttgaga 180
 gagaagtgaag gatgctgggt aagctacgcc atcgcaacct agttgcgcta aagggttatt 240
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<210> 44153
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-H3

<400> 44153

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 ggtactgaag ctgaggttta aagcaaagat gaagagagca aagggcagaa aggatcccc 180
 acatcaaaac tgacaggcat gatcggtcct ggaacacaag gatgcagcag gacggcaaaa 240

tcctttgacc tgtgtcaaca ttttttggtg ctgccgtgct agtagtagga gtatcttgca 300
agcttttggt ttgcaagggt tagtgggtcca gaaaacactc tgtctgctaa attaccagaa 360
acatccgcag ttgtatattg cggcaaaatc ccaagtgtat attgcgcaaa aaataaaa 418

<210> 44154

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-H5

<400> 44154

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tgggtgtcaga gtcgtggttg catatggtgg tgcaccaata actaaccagc tgagggagtt 180
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tgatatgggt ttcgagccac agatacgtaa aattgttgag ggcattggaca tgcctcaacg 360
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tgcagattt 429

<210> 44155

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-H7

<400> 44155

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ggcctcgctt gggccacgga cgaccactcc ctccacaacg ccttcagcac ctacggcgag 180
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gatggcggcg 430

<210> 44156
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-H8

<400> 44156

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caggcctcac atgcgccacg gactaccact ccgtacacat cgcctacatc acctacgggg 180
aagacctoga gtccaagatc atgctcgatc cggacacgca gaggtacaga tgcttcgggt 240
gcgtcaccat cttcacggac gatgcaatgc tgcacgccat ccagggcattg aa 292

<210> 44157
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-006-Q1-K1-A4

<400> 44157

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cggcagcgcg ccagctccat agtgtaggag gagatggcgc tcacaagaat cgggtcttgct 180
ggccttgctg tcatggggca gaaccttgcc ctcaacattg cagagaaagg gttccccatc 240
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ggaaacc 307

<210> 44158
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-G1

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actaccggtg cttcgccgat ggactcgaat gtgccacgga ctaccactac attgacacat 180
gactacacca cctacgacaa ggccttcgac tctactacca tcctagatca cgatacgcat 240
acgtacc 247

<210> 44159
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-D5

<400> 44159
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aagcccactg ccgaaaaact catgccgcgc aaggaggtcg gcgagaagaa cggaacacg 180
aacgccatga agagcgtcac gacctacaag atctacatat tcaacgcgct caatcaggtg 240
caccgggaca ttggtatctc gtccaatgcc atgtccatca tgaactcctt catcaactac 300
atcttcgaga agctggctgt cgatgccggc aatctcgccc gctacaacaa gaagcccacc 360
ataaccttcc tggagatcca gacttttgtg cgcctcgtag ttcc 404

<210> 44160
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-D6

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gactagaagt ttgggctgct aaagactatg ttcagtgcac tctcatcttc attcgacccc 180
ttggattatc atttcatatg gcatcagcgt tcaattttgg aggctgttgg agcttttcagt 240

tcaaattgacc ttcaacttgct agatataagc ttgttttatc aattgctttg tcttggaatg 300
 tgccctctggg ctatctatgt 320

<210> 44161
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-E1

<400> 44161

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 ctacttgggc attcacagtc cttgggtaca tcgggaaact tctatttggg gttgttgggt 180
 taattgtttc aatagcttgg gttgcacata ttgtcatata cttgttgatt gatcctcctc 240
 tatcttcttt cctgaatgaa gtcttcataa agttggatgg tgtttggggt ctgcttggga 300
 ctgctgcttt cgcattcttc tgcttctatc ttcttatcgc agtgattgct ggggagatga 360
 tgcttggatt gaagctagtt tttatcaciaa ttcacccgat gaaatggtga ggcactttaa 420
 tgaactcctt cct 433

<210> 44162
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-E11

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 gatgaggagg tcgacgaaac tgggtgtgag gccaaaggaca ttgagctggt gatgaccagg 180
 gcatctgttt caaggcccaa ggctgtcaag gccctcaagg cttctaattg ggacattgtc 240
 actgccatca tggatctgac aacctagggg gatatttctg tccgtgccac ttttgttttg 300
 gagtgctatt gcaac 315

<210> 44163
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-E2

<400> 44163

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gactaacact ggtaaaggc tggaatgcag aagagataga tgcataatgcg aaactgctag 120
atcttggcca gcccgatttc attgaaatca aggggtgtaac atactgtggc tcgtcagcaa 180
cttcaaagtt gactatggaa aatgtacctt ggcaactctga tgtaaaggaa ttctccgagg 240
tggtggcatc gaaaagcggg ggtgtatacg aagtagcgtg tgagcatgct cattcatgtt 300
gtgtcctact tgcaaaggta gataaattca agatcaacgg caaatggcat acctggatag 360
attatgaccg tttccatgaa ctggtgacat ctggaaagcc tttcaatagc cgagattaca 420
tggccatgac gccct 435

<210> 44164
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-E3

<400> 44164

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aggtgtatat gtcaggaaat ggtctgatac atactactca cacatttatc acttgggtgat 120
acaatacgat ctctgagcag cctaattgggc taggagcgac tgcataatag cagaaagcta 180
atcttgatct ctgccctata ataggcattg gcttatgtga cctggaatgg ctatacttat 240
ttgatgcacg catgccaggg tggacaccat ctttactatc aattctacca agcatctgat 300
ggtgactgtc ttagtatagc ttctactgtg gacagtttgt gcatctagtt gtctgaatct 360
atgaagacct gactgatcta tgattgaaac aatgatgctc tatgtgaact tagggatatt 420
gtgtacgca 429

<210> 44165
<211> 185

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-005-Q1-K1-E4

 <400> 44165

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 ggctggaact gtatgtaaac ggtcttgacac atactactca tacatgttct cttgctgtta 120
 ctattcggtc tctgagcagc ctttgtgccca agagcgactc atgatgcagc attctatctt 180
 gtatc 185

<210> 44166
 <211> 310
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-005-Q1-K1-E5

 <400> 44166

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 tcttacattt gggtacttct cagctaccaa caatattggg tgagattatt aggaaatggg 120
 ctaggtcata cttctcacac aatctcactt gattttacaa tactttttct taacatacta 180
 ctgggtctaaa tactactctt tatacaaaaa ctacatcctt atctttacca taaaataagc 240
 atccctttat ttaccttgt attgctatac ctatctaaag cacatatacc attttttaca 300
 acatcttcac 310

<210> 44167
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-005-Q1-K1-E6

 <400> 44167

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 atatcccaa ctgctctatc ttagccatcc ctattttatt gtaattaagg gtgtaacata 120
 ctagtgtctg tcagcaactt ctaagatgac tatggaaaat gtaccttgtc actctgattt 180
 aaaggaattc tccaatgttg tttcatctaa aagcattggg gtataactaat tatcgtgtga 240

tcatgctcat tcatgttggtg tcctacttgc ataggtatat aaattt

286

<210> 44168

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-E7

<400> 44168

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cctcttctctt ttggtttcta gccagctacc cccaatattg tgtatattta aaaggaaatg 120

tgcctataca tactttctcac acattttctc ttatcaatac aatacatatc tctaacatcc 180

tactgatctt tatatacgac tacatttaac caaaaatcta atctttgatc tctaccctaa 240

aatatgcacc cccttatttt acctggctctt gctatactct ttttatgcac tcataccatt 300

ttaaactcca tattttctat caattcttcc aatcatctca tcttcacttt tctcaaatac 360

ctcc 364

<210> 44169

<211> 63

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-E9

<400> 44169

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caa 63

<210> 44170

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-F1

<400> 44170

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tcgttctctt gatcgcgtac aggaggtctt catcagagca atgagtggga attgcagaat 120

cctgccaaat tagttctcag atccaagaca tgttcaatcc tattcagaag cttgataaca 180
 ttgagataat tgcaagacag ccatacaaaa atgacagcgt tgtcagcgta gaaagataacc 240
 cagtgtcttct agtgttttttc tctcattcct cttttctttt ggggtggggg gtggggagct 300
 tgaggctgac atttcaccat tagtgaagt accaaccagt agtcatttgc aatgagggttc 360
 ctcatgaagg acccatgtgt gatcttttgt ggtctgaccc agatgaccga tgtggatggg 420
 gaatttcac 429

<210> 44171

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-F11

<400> 44171

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 ggaagttttg aaaactgaac tggaagatgg catcagcaga gctttcccggt gagggaaaatg 120
 tgtacatggc gaaacttggc cagcaggcag agaggtagca ggaaatgggt g 171

<210> 44172

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-F2

<400> 44172

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 tatctgtctc tagtaacagt ttggttggtg cgaagcgggg aagagggcgc ccacctaaagg 120
 ttgtgggttc tgggaaagag aagatgcaac aacctgaatc tgtgcagtcc gtggatgctt 180
 cattgactaa gagagggcgt gggaggccca gaaaggagaa ggcattggaa agtggcctca 240
 tgaaagcctc gcagatgact gagggccaac gtgaagctct gactgcagac caagctgggg 300
 ctgtccaaaa tgaagtagaa gatagggatt tgcaatcctt ggttactcct ttgacagaga 360
 agagaggccg cggtcgtcct agaaagaggc cgttggaat cgaaactgca aaagcagggg 420
 ct 422

<210> 44173
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-F3

<400> 44173

agaatttaag caaagctttt gtgctgaagg agaaccctaa gaaaaagaaa gcacgaacac 60
aggaattggt ggcatatact ggtgcagggtg atcaagctaa atctgtagag gacagagttc 120
tggaaaatac acatccttca acagagaatg ttgtggcaat cagagattca aatccagttc 180
aagattttga ggccatgctg gctaagagat ctagctcaac atggactcag aaggctattg 240
gagatatgca gaattacata gcagctttgt tacagaactc cagtgatggg ggcaactatc 300
aaaaagcact tgaatgtttt gcttctctgc ggaaggcctg tattattgaa caggaaccac 360
aagaattcaa ccagttccta acgaacattt acgagagatt gaaggaaggt gatgctgcca 420
agttctttca act 433

<210> 44174
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-F4

<400> 44174

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tcatcaactt actctgacca agttcatcaa tttaaataag caagagaaag gtgtcggcaa 120
gccactacca gctgttttgg ttcttcatgg tcattatgct ggttgtgtgg gtgatttgcc 180
gagctatgac gcctttgcac ttggagggcc ttattctgtt aggggcttta gtaatggtga 240
actgggcgct tctaggaata ttcttgaggt tgctactgaa ctgcgtgtcc ctgtaagaaa 300
cacacacgtt tatgcatttg tggacatgg gactgacctt gggagttcca aggatgtcaa 360
agggaaacct acagagtttt tcaggcgtgt tggatcatga tcttcatatg gtgttggtgt 420
caagcttggg ttggtgta 436

<210> 44175
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-005-Q1-K1-F8

 <400> 44175

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 gggatcaact tactgggacc aagtgcatac atttaaataa gcaagagaaa ggtgtctgca 120
 tgccactacc agctgttttg gttcttcatg gtcattatgc tggttgtgtg ggtgatttgc 180
 cgagctatga cgccttttga cttggagggc cttattctgt taggggcttt agtaatgggtg 240
 aactggggcg ttctaggaat attcttgagg ttgctactga actgcgtgac cctgtaagaa 300
 acacacacgt ttatgcattt gtggaacatg ggactgacct tgggagttcc aaggatgtca 360
 aatggaaccc tacagagttt tcatgcgtgt tggatcatga tcttcatatg gagttgggtg 420
 caaacttttg tt 432

<210> 44176
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-005-Q1-K1-D4

 <400> 44176

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 gccgcgccat ttgatcgaat ggccgagggc gcccaaggcc gagaagaagc ccgcggagaa 120
 gaagccgacg gaggagaagg ccgagaagaa gcccaaggcg gagaagcgcg tgccgggcaa 180
 ggagggcggc gagaagaagg ggaagaagaa ggccaagaag agcgtcgaga cgtacaagat 240
 ctacatcttc aaggtgctca agcaggtgca cccggacatt ggtatctcgt ccaaggccat 300
 gttcatcatg aactccttca tcaacgacat cttcgagaag ctggctgccg aggccgncaa 360
 gctcggccgc tacaacaaga agcccacat aacctcccgc gagatccaga cttcgggtgcg 420
 cctcgttctt 430

<210> 44177

<211> 216
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-005-Q1-K1-F9

 <400> 44177

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 tactcacgct ccgcatctgg gcgccgtgga agaggctcgca gtccaagcta tagcaggagc 120
 aggagtcgta gccggagccg gagctatagc cgatcgaggt ccctatctgg atctcctagg 180
 ggaggccgtc gtgactcgtg ttgattggag atcgag 216

<210> 44178
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-005-Q1-K1-B5

 <400> 44178

 ggcatgcagt gtggaaatcg tgtgattcag cgtggtataa catgcaaatt gcagggtgttc 60
 ttacacgcg agggcaaagg ctgtggagta cgcacagtag aggatctccc aaaagggttc 120
 tttgtctgtg aatatgttgg agaggacta acaagttctg aattgcacga aagagcaatt 180
 gaaaatgcaa gaaatggtaa acatatgcat caagtactcc tggatgctgg ttgggggttca 240
 ggtgtattga gggatgaaga tgcccttagc cttgatggtt cattttatgg gaacgttggg 300
 cgatttatca accacagatg ctatgatgcg aatttagttc agatccctgt gaaattgaga 360
 cgctgatca tcattat 377

<210> 44179
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-005-Q1-K1-B6

 <400> 44179

 gaattgttct gttatataaa tcttctaaac attttaacaa attatatggt ttgtagggtcc 60
 gaggttctat gccattcttg tgggagcaga ttgttgattt gacatacaaa cctagttttg 120

acattgttag acaagaggaa gcgcctcgtg tacttgagag gcacttccat gatttgcaaa 180
 agaaatatgg agctgtctta gccgttgatc ttgtcaatac aggtggcggg gagggccgcc 240
 tccgtgaaag atatgcaaaa tctattgaac ctattcttag tgaagatcta agatatgtgc 300
 acttcgactt ccaccgaatt tgtggccata ttcactttga gcgtctgtct cagctgtatg 360
 atcagatcaa ggactacctt cagaaacata agtactttct tataaatgat taaggagagg 420
 aaat 424

<210> 44180

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-B7

<400> 44180

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 ggatactgac ataaattttg cttcggataa actcgaggac ctatgtaatg ctgggattat 120
 agtatggagt gaattctggc aggcattgct acagttggat aaaagggtg gaggcattgaa 180
 ggatccaact ggtcttatgg gcaagaagca attcaccatc ttccacttca atggaattgc 240
 caagtctgtg ctgaatggga atgcaagtgc aggtgggttca tgcctatac agagaccag 300
 gttatgcaag ctaaattgtca ctgtcccccc aaggtggact caagatgagt atctggctga 360
 tgttgtaagc gcatcaacca gcagcagcaa ggacgatagt attctttctc tagctcccc 420
 aggtcag 427

<210> 44181

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-B8

<400> 44181

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 ggatactgac ataagggttg cttcggataa actcgaggac ctatgtaatg ctgggattat 120
 agtatggagt gaattctgac aggcattgct acagttggat aaaagggtg gaggcattgaa 180

ggatccaact ggtcttatga gcaagaagcc attcaccatc tggcacttca atggaattgc 240
 caagtctgtg ctgaatggga atgcaagtgc acgtgggttca tgtactatac agagacccac 300
 gctatgcaag ctaaattgtaa ctgtcccctc aaggtggact caagatgagt atctggctga 360
 tagttgaagc gcatcaacca gcagcaacaa agacgatagt attctatctc tagctccc 418

<210> 44182

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-C1

<400> 44182

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 ggatactgac ataaagggtg gggctgataa actcgaggac ctatgtaatg ctgggattat 120
 agtatggagt gaattctggc aggcattgct acagttggat aaaagggctg gaggcattgaa 180
 ggatccaact ggtcttatgg gcaagaagca attcaccatc ttgcacttca atggaattgc 240
 caagtctgtg ctgaatggga atgcaagtgc aggtgggttca tgcctatac agagacccag 300
 gttatgcaag ctaaattgtca ctgtcccccc aaagtggact caagatgagt atcttgctga 360
 tgggtgttagc gcatcaacc 379

<210> 44183

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-005-Q1-K1-C10

<400> 44183

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 aagtgaagaa gcctcaaaag ttccccagga cctcctctac aagagaattg cagaagtcaa 120
 agagaaggaa aggcaaaatg ccttagaaga gattatctac tgttgggtta catatagggtt 180
 catggaaaat gacatatata tgacacctgc attatcacca gggggtggcc ctgtacgtga 240
 catatccgcg ttgcctaatac aagaagacaa attgcgaaac atacactccg cagacgcctt 300
 tgagatgata caaaaccatc tcaatcttat catgggagaa aagatagcat cnaccgccga 360

tactgntggt gagatcagca acttgaatct ttggaagctg tatgc 405

<210> 44184

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-C11

<400> 44184

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ccgaattgag taaactttta aaggtccccc ggaccttatt tactatataa tttcataatt 120

caaatttaat tatattcaaa attccttata atacattatt tactttttctt ttacatatat 180

attcatttaa aatgacatat atattatact tatattatt 219

<210> 44185

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-C2

<400> 44185

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cctctcatcc acgtccttga gacgggtaac ccagaggcaa gagcaaactc agctgcaact 120

ctcttcagcc tttcagtaaa cgaagagaac aaggccaaaa tcggacgatc tggagcaatc 180

aaacccctgg tcgacctgct gcgagatggc agtgcacagg ggaagaagga tgcagcaacg 240

gctctcttca acctatcgat atttcacgag aacaaggccc gggttggtga ggccggggct 300

gtaaagcccc tgggtggagct gatggacca gcagctggga tggttgacaa gggcgtcgcc 360

gttttggtcaa tcc 373

<210> 44186

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-C3

<400> 44186

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 tgtgccctgc tgtgttgtgt caccatccat ctataataat cttatatcta taccacacct 120
 tttgtgtaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gatacaaaaa 240
 acagatcaat taaaaaataa caaaataaaa aagaaaacaa aagaccgata tg 292

<210> 44187
 <211> 258
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-C5

<400> 44187

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 aggtccccta caatgtcata gtcgccatcc atctataata atcttatatc tataccccac 120
 cttattatta aaaaaaaaaa aatataacat acattactac aaataaataa aataaaactaa 180
 atacattaaa aatccaacta ttacttataa acaaaaatca attcaccatt ttccacttca 240
 atgtaaattc caaatcta 258

<210> 44188
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-C6

<400> 44188

gcgcccacgc gtccgcccac gcgtccgcgg acgcttgggt tcgcaagcgc ggacgccatc 60
 aaggggtctca tccacgtgct tgagaggggg gaccagagg caagagcaaa ctcagctgca 120
 actctcttca gcctttcagt aaacgaagag aacaaggcca aaatcggacg atctggagca 180
 atcaaacccc tggtcgacct gctgcgagat ggcagtgcac aggggaagaa ggatgcagca 240
 acggetctct tcaacctatc gatatttcac gagaacaagg cccgggttgt tgatgccggg 300
 gctgtaaagc ccctgggtga gctgatggac ccagcagctg ggatggttga caaggccgtc 360
 gtcgttttgg c 371

<210> 44189
 <211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-005-Q1-K1-C7

 <400> 44189

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 ccagggtgcgc tgctaagttt gggcgcacgc atctataata atcttatatc tataccccac 120
 cttttgtgta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaata aaaaaaaaaat 180
 aaacaaaaaa aaaatcatat ttaaattata ataaaaaatt atataaatct attatattat 240
 tatatatata ataatcatat ttttaataat attaatatat taatatatat cattactaat 300

<210> 44190
 <211> 110
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-005-Q1-K1-C9

 <400> 44190

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 tcacctcatt aaatgcaaat ccctcttctt tattcaacac atatttacca 110

<210> 44191
 <211> 203
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-005-Q1-K1-D1

 <400> 44191

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 tgtaccctgc tgtgttgtgt ggccatccat ctataataat cttatatcta taccacacct 120
 tttgtgtaaa aaaaaaaaaa aaacaaaaaa ataaaaataat acaaaaaaaaa aaataaataa 180
 tctaaaatga taataataat taa 203

<210> 44192
 <211> 467
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-005-Q1-K1-D10

 <400> 44192

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 taatatatgt gctctggcta attgaaatgc catgggtttg gggccatgca acgtctgaaa 120
 atggagaaat cgctcaaatg tacttatctg gatggagcgt gccaatcat gatgggggct 180
 tgacgggcaa caaactgagc aaccagatg tgcttgatc cactaccg ttcctctatc 240
 tgggtgctgt cccagtaata gtccttatat atgggtctgt tgcagaaaag gctactgtat 300
 ntttgcagca cagaataaga gtagtatact cttggggact tttttttttt ttattcttta 360
 tttatttgta tttataattt ttttttttat tttttttttt ttatatattt tttgttttgt 420
 tttttttttt tttttttttt tttttatttt tttttttttt tttatttt 467

<210> 44193
 <211> 212
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-005-Q1-K1-D11

 <400> 44193

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 tgatatatgt gctctgtcta ggggaagtgc catgggtttg gggccatgca acatctgaaa 120
 attgataaat ttctcaaag tacttatctg tattgatcgt gccaatcat gaatgtgtct 180
 tgactgtcaa catatttttc atcttcatat tt 212

<210> 44194
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-005-Q1-K1-D3

 <400> 44194

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gccgctccat ttgatcgaat tgcccgatgg cgcccaaggc cgagaagaag cccgcggaga 120
agaagccgac ggaggagaag gccgagaaga agcccagggc ggagaagcgc gtgccgggca 180
aggagggcgg cgagaagaag gggaagaaga aggccaaaga gagcgtcgag acgtacaaga 240
tctacatctt caaggtgctc aagcaggtgc acccggacat tggatatctg tccaaggcca 300
tgtccatcat gaactccttc atcaacgaca tcttcgagaa gctggctgcc gaggccgnca 360
agctcgcccg ctacaacaag aagcccacca taacctnccg ggagatccag acttcggtgc 420
gcctcg 426

<210> 44195
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-005-Q1-K1-B4
<400> 44195

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aggcggcccc aggaagaagt cggtgacgcg gtccgtcaag gccgggctgc agttccccgt 180
cggccggatc gggcgctacc tgaagaaggg ccggtacgcg cagcgcgtgg gcactggcgc 240
ccccgtctac ctgcgcgcg tcttgagta cctcgccgcc gaggttctgg agttggcagg 300
gaacgcggcg aaagacaaca agaagacgcg catcatcccg cgccacgtgc tcttggcgat 360
ccgcaacgac taggagctcg ggaagctgct ggcaggcgtc accatcgcg acggcggcgt 420
cctccccaac atccac 436

<210> 44196
<211> 446
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-004-Q1-K1-H7
<400> 44196

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 cctccaccgc ttctgtcaagt ggcccaaggt cgtgcgcac cagcgccagc gccgcacact 180
 caagcagcgc ctcaaggtgc ccccggcgct caaccagttc acacgtaccc tcgacaagaa 240
 ccttgcaaca aacttggtca agatgcttct taagtaccgc cccgaggaca aagctgccaa 300
 gaaggagagg ctcttgaaga gggcccaggc tgaaaacgag gggaaaactg ttgagtcaaa 360
 gaaaccaatt gttgtgaagt acggccttaa ccatgtgact tacctcatcg agcagagcaa 420
 ggcccagctg gttgtcatag ctcatg 446

<210> 44197

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-H8

<400> 44197

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 tgggtgtcaga gtcgtggttg catatgggtgg tgcaccaata actaaccagc tgagggagtt 180
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 ggctagagtc tcacttcaaa tgataaagta tttagctctt gatgaagctg atcggatgct 300
 tgatatgggt ttcgagccac agatacgtaa aattgttgag ggcatggaca tgccctcaacg 360
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 gcagatt 427

<210> 44198

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-H9

<400> 44198

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gtgttcacatgg aggaatttcg caaggagttc aaggagaaga accctaagaa caagtctgtc 180
gctgcggtgg gaaaagctgc tggcgacagg tggaaatccc tgagcgagtc ggacaaggct 240
ccctatgtag ccaaggctaa caagctcaag ctagagtaca acaaggccat cgcagcctac 300
aacaagggcg agagcactgc agc 323

<210> 44199
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-A1

<400> 44199

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aggggaaaca ataaaatgaa aaaagagaac cataaaaaaa caaaaactat ataaacaaca 120
aaaaagaata tctggatagc gacaaaaacg atgtcgtaac acggcgtctt tatctttttc 180
gtttacgttc gcgacacttt ttgggttgcc acgtcgcggt tatttgtggt tgggtttggt 240
gcatactact tgactgtctc atcatgagga agccactaga cttttacacc ctgtaaaatg 300
ggaaaacccc ttggtttctc 320

<210> 44200
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-A10

<400> 44200

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ccgataccgc gctaccgccc gccacaagc tcctaccac agtttccctt ccgctcctct 180
cctcgtccac ccgcgccgc ccgttcctac tggtcgccag gcgccacctg ccgatcgcg 240
ccctcgttac cttctgcgac acctgtgagg ccaag 275

<210> 44201
<211> 370

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-A11

<400> 44201

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 aagacgctga tgagggattt caagcggttg atgcaggacc ctacggccgg cataagtggc 180
 gccccgcagg ataacaacat aatgctgtgg aatgctgtca tatttcgacc tgatgatacc 240
 ccgtgggatg gaggtacgtt taagctgact ctccagttta atgaacaata tccaagcaaa 300
 ccaccaactg tgcgatttcg ttctaggatg ttccatccta acatttattc tgatggaagc 360
 atatgcttag 370

<210> 44202
 <211> 214
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-A12

<400> 44202

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 attctgcgcc ataatctaac ctgccattga taacatatcg atgctgtata acgctgttat 180
 acttggaccg gacgatagct gctctaacca atgt 214

<210> 44203
 <211> 415
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-005-Q1-K1-A4

<400> 44203

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cgccccgagg tggcggagat ggccgtcgac gtgctgctct gcgcggtgcc gatctggggc 180
gccgtcatga tcggcctcgt cgtcggctgg tcttggcgcc cgcgctggac gggactgctc 240
ttcctcggcc tccggagccg ccttcgcate ctctgggtgc cgtcaggcct ttggggcccg 300
cggtcttggg tcgcctgcac cgcgctctcc gtctgcttcg tcgcgaccaa gtcattcttc 360
ttcgcatttc gccgttgcat aggcaatctc caggacaggg gcctccccga cgatt 415

<210> 44204
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-A6

<400> 44204

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atggcttaat gtttacacga tggtagtaga ataatgaata tgatcatagc gttgtcagtt 180
ttcttttaac taacaatacc atgcattttt cattctctgc agtcatctgt tcttcattcc 240
cagccgaagt ccaactgttg aacacctgct tatattgcac ctgaagtttt gttgaaaaaa 300
gaatatgatg gcaaggctact tgtgctatca ctttttttat cttgagaaat gtgtcttgag 360
agttgtgcat acctctgcat cagtgcactt gtgttccata tacatgtgcc acat 414

<210> 44205
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-A7

<400> 44205

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gggcacgggc accgggacgg ggcgggcacc ggctataaat aaccacacac cctcaagggc 120
tgaaccgaac caagcagtaa cattaatcac ccactctact actcgaagtt actaccagca 180
gcttgcttca acagtagaag agagcgagcc gaggatggcg tcaccgaagc cctcgtcggc 240
ggccctgctc ctctggcgcg cggcagccgt gctggcgctg gcgcgcgcgg acctgacgca 300

cgacaactgc gtgaagaaca agaaggtgac ggtgcagaac ctgtgcagcc acgacgtgac 360
gctgacgctg gagccgttgg ccaacagccc ggcgttgttc gcgggcacct acacgttgca 420
cccgcgca 428

<210> 44206
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-A8

<400> 44206

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gcttccagcc ctagcgcagc aatggcgggt tgggtgcgagc aggcgggtggc gctgctacag 120
cgccccgcgg tggcggagat ggccgtcgac gtgctgctct gcgcggtgcc gatctgggcc 180
gccgtcatga tcggcctcgt cgtcggctgg tcttgccgcc cgcgctggac gggactgctc 240
ttcctcggcc tccggagccg cctccgcatt cctctggtgc cgccaggcct cggggcccg 300
cggtcttggt tcgcctgcac cgcgtctctc gcctgctccg tcgcgaccaa gctca 355

<210> 44207
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-005-Q1-K1-A9

<400> 44207

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aggctgatga gggatttcaa gcggttgatg caggaccctc cggccggcat aagtggcgcc 180
ccgcaggata acaacataat gctgtggaat gctgtcatat ttggacctga tgataccccg 240
tgggatggag gtacgtttaa gctgactctc cagtttaatg aagaatatcc aaacaaacca 300
ccaactgtgc gatttgtttc taggatgttc catcctaaca tttatgctga tggaagcata 360
tgcttagata tcctgcaaaa tcagtggagt c 391

<210> 44208

<211> 280
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-005-Q1-K1-B1

 <400> 44208

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 atatctgggt agcgacgaga cgatgtcgta gccggcgtct ttttcttttt cgtttcgttc 180
 gcgacactgg gtgggttgcc cgccgcgttt atttgtgggt gggtttgtgc atactactag 240
 actgtctcag caagaggaag caactagact tttagaccct 280

<210> 44209
 <211> 197
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-005-Q1-K1-B10

 <400> 44209

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 cggggagtcg aagtcagaac cacttggggg cccttaataa aaagctcact aagtgggtgg 120
 ccccgccctt tttttcccg gtccgtggtg aataccatat cctaatttgg gccttgaact 180
 aaaccggcca ttaagtt 197

<210> 44210
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-005-Q1-K1-B2

 <400> 44210

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 acagggcctc ggtgcactat ggacttgagt ttacggctct gcagaaaacc ccctagggtt 120
 tctggaaatc gaaccacga cccttccta atggaacggt ggccgcagag gaaggaagg 180
 gtggaggggc ttaccggcgg cgagactgct ctggtgaggt ggtcgaggat gtacgggagg 240

tcttgaggat cacggcgatg tgcgggtcgc cgtcggggat ggtcggagtc ggccgggtccg 300
 cgtgcgcatg cggagatgct cgccggcggc gaggagtccg gcctaaccag ggcacgatag 360
 gtcaatcgaa tgggtcagag agcttcaactg gatgctatgg aagatgtggg tgcaaggaat 420
 tggaaa 426

<210> 44211
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3076-005-Q1-K1-B3
 <400> 44211

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 gaggggcggct gatgagaaca gaaggccggg ggtggggagg cccgcgccat gcgtccgaga 180
 catggggagc cggcgcgcgc tcacggacat caagaacctc gtcgggggttg cctcgaaccc 240
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 gttgccaaagc agccggccaa tgacaaggaa attcgtcgcc ttcttggcga gcaaagggca 360
 acctgaatgt cagccgaccg gagctggtcc agaaccggga gttgatccac ggnaggaacc 420
 aatcggcgat ggcacc 436

<210> 44212
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-004-Q1-K1-H6
 <400> 44212

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 atgaggctta tggacagagg cccatagcac acattaaata gaggttttta tgtatctgaa 180
 ggtgcaaaaa tgtgtagtgt gaagcaggtc atggctgcac aagctctcta tgtatctggt 240
 agcctgttca atcactcatg tcagtccaat gtgcacgcat attctctttc acgtgcgttc 300

gtgctgagaa ctactgaatt tatatagtc gagagccctg ttgaactgtc atatggttca 360
 caatgttgct agatgcat 378

<210> 44213
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-F6

<400> 44213

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 gccactacca atctgattga ttctatatgg ccatcatgct ctttgcttga cttatatgct 180
 ctagctatga ctcacattgc acttgatagg gccttattct agtatggtag ctttaataat 240
 attgaactta gctctactaa taatatatct taggtagcta cttatctgtg tgtccctgtc 300
 tgtaacaca 309

<210> 44214
 <211> 127
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-G11

<400> 44214

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 tccttct 127

<210> 44215
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-G12

<400> 44215

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cttagctccg atccggtccg actactaacc caccgccgat aagccgcgcg acctgatcgc 120
gcggtggtcg aggatagggg aaacgcggcg ccgcggttgc ctgccaccga accgactcag 180
gatatggaag aggagccctg atcccttcgt cccggtgccc ttcggaccga tggactccga 240
gcactggatc tcgcgcctgg cc 262

<210> 44216
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-004-Q1-K1-G2

<400> 44216

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tgatgtctac aaaactgcgg aagcaattag agtaaattgg ggacaaatta ctctgaacc 180
tggcccatta cctggcatca ccaccaagat aactgcatgc acagatccag atggctggaa 240
aacagtgttt gtcgataaca tagattttct gaaggagttg gaagaatgag ctttgctaga 300
gatctcaact tggtagatca agtccatcac ggtagcacc cctgagttc catgcatgac 360
ctgcanaatc ttttgtaagc cacagccttc aactgangat tgtagatagg tcgtncatc 420
tacggcatca tcgcaattgg atagtg 446

<210> 44217
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-G3

<400> 44217

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ccatggaata gtaagggggg taatgatgac agcatgaaaa ctgacacctg ggggtgcttg 180
tcgacaggtt gggatcagca actatcttgg agcactacta atttctagac tgagggacca 240

ggaa

244

<210> 44218
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-G4

<400> 44218

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cgctaggggc cgtgccccctg gtctccatct tcggcgcttc gccaccaga tatgagcagc 180
tggcaattcg attttgaggc cattatttga taaccggga caagtgcact ggttacctga 240
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tcttgtagtt ggataaaaga tgcgggaac tgcaaggcta cgcctgatag ggtagccaga 360
agtgcccagc ctttgggcca ctgtcacttt ccgtgctgtg catgccctcg tagtgcaaac 420
ctctttcaag aag 433

<210> 44219
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-G5

<400> 44219

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cggcggccgt ggaggcggcg gcggcggcgg gtacggtggt ggccgtggag gcggcggcta 420
cggcgggtggc gggcg 435

<210> 44220
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-004-Q1-K1-G6

 <400> 44220

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 gtattgtgtg ctctccagtc tgtgcttatt tttaaaagta tatcatctac atttgccctt 180
 ttgaattgct tttaccgata agaaaatggt tgctgtttca tttcaattct agaatttctt 240
 ttacattgtg tgtatgtgtt ccatgtgctt catgatgtgt tttacaact aggtgtatac 300
 tgaaagatca atatataatg gatcgaggta aactacctat ataggacaat gtcttgagta 360
 tacat 365

<210> 44221
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-004-Q1-K1-G7

 <400> 44221

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 atggactggt tgtggacaag agaagagaaa gagatagcta ttgtcagtca cagtggtttc 180
 ttgtttcaca ccttaagcat gtacagcaag gagtgccatc caaccataag agacgaagtt 240
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 gggatcatatt cgtcaagatt caactatgct ggcaagaatc caaccgggct agatgtgcct 360
 aatgatattg cagataagaa gcaggttgat gaagctcaga agaactgagg caaccttgaa 420
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<210> 44222
 <211> 199
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-G8

<400> 44222

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ggattatatg gacttggggc acggcaatat agggcactcc atctaataa aataggctga 120

ttatcacact attcttaatt gtataagtat atcacctata gataacttac tctaatttgc 180

tcttacctca taattaatt 199

<210> 44223

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-G9

<400> 44223

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acggggggatt ctccaacacc gtttgcggcc ctgcctcact acactaatct gctgcgaacc 120

cccctctcgt attccttctc gccatcctgc cccgagcgca ccgtttatag gccgccaggc 180

tccggcacc cgcggcgccc gggtcgcct ggggtcggaa tgccctgctt cccgccgtcg 240

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<210> 44224

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-H1

<400> 44224

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atgaggctga tggacagagg cccagagcac acaataaata gaggttttta tgtagctgaa 180

ggtgcaaaaa tgtgtagtgt ggagcaggctc aggggtgcac aagctcttta tgtatctggt 240

agcctgttca atcactcatg tcagcccaat gtgcacgcat attttctttc acgtgcgttc 300
 gtgctgagaa ctactgaatt tataaagtcc gggagcccag ttgaactgtc atatgggtcca 360
 caggttggcg agatgcatat ttcagagaga cagaagtcac ttcaagagaa ttactacttc 420
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<210> 44225

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-H10

<400> 44225

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 tacagtttgt ataaacgcag tgatacaagt gtggccaagg ttctatttcc aggtattacg 120
 tccgaggaga aatttgtggg cctcgtaaa agcgagccag agaagtttga aaagttcgat 180
 gggaaatttg aagaaaagga aattttgctg tttgtggagc tcaacaagtt tcctctaatt 240
 actgtattca ctgagctcaa ttctggtaaa gtatattcaa gccctattaa gctacaggtc 300
 ttcacctttg cagaggctta tgatgttgaa gatcttggat ctatggttga agaaa 355

<210> 44226

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-H2

<400> 44226

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 gttcttttggg aaccagatgt gagagaaaca aatgaggctg tcgcattgag gggatatgaag 120
 tttatggact ggttgtggac aagagaagag aaagagatag ctattgtcag tcacagtggc 180
 ttcttgtttc acaccttaag catgtacagc aaggagtgcc atccaacat aagagacgaa 240
 gttagcaagc actttgcaaa ctgcgagcta cggtcgatgg tgttggttga cagaagcatg 300
 cttgggtcat attcgtcaag attcaactat gctggcaaga atccaaccgg gctagatgtg 360
 cctaatagata ttgca 375

<210> 44227
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-H3

<400> 44227

gtcctattgt tatgccttca aaattattat ttatcagacc ttttgtggac agaagattcg 60
gtatcacagc tggttctttg gatatttcaa atcaaagtca attcaattgc tattgtctgt 120
atgagggtcta tggacagagg cccagagcac acattaaata gaggttttta tgtagctgaa 180
ggttcaaaaa tgtgtagtgt ggagcatgtc atggttgcac aatctctcta tgtatctggc 240
agcctgttca atcactcatg tcagcccaat gtgcacgcat attttcttcc acgttcgttc 300
ttgctgagaa ctactgaatt tataaaggcc gagtgcccag ttgaactgtc atatgggtcca 360
catgttggct agatgcatat ttca 384

<210> 44228
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-H4

<400> 44228

actgactcgt gtacggattt gtgtgcagat agagaatgat cgacatgggc ttgggtaacc 60
agatatggga gaggcgaaat gatgctgtct cattgagggg tatgaagttt atggactgtt 120
tgtagtcaag attgcatata gtgattcacc tagttcatta cagctgatgc atgtataaca 180
ccttaagcat gtactgctag gattttccatc caaccatatt agactaattt agcattcact 240
tatgtaaact gctagctact gtcaatggtg ttgtttgact tatacatgct ttgggttatat 300
ttgtcaatat ataac 315

<210> 44229
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-H5

<400> 44229

acgcggacgc gtgggcggac gcgtgggcgg actcgtgttc agatagagaa tgatggacat 60

gttcttgggg aaccagatgt gagagaagga atgaggctgt cgcattgagg ggtatgaagt 120

ttatggactg gttgtggaca agagaagaga aagagatagc tattgtcagt cacagtgggtt 180

tcttgattca caccttaagc atgtacagca aggagtgcc tccaaccata agagacgaag 240

ttagcaagca ctttgcaaac tgcgagctac ggtcgatggg gttggttgac agaagcatgc 300

ttgggtcata ttcgtcaaga ttcaactatg ctggcatgaa tccaaccggg ctagatgtgc 360

ctaatagatat tgcagataag aagcaggttg atgaagctca tatgaactga tgcaaccttg 420

aaagcatacc ggaaaatgaa cttggatt 448

<210> 44230

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-F5

<400> 44230

ctgacgcgtg tgctgactcg tgggtcgatt gaatatcatc ggcttatgga tatggagtgg 60

acaggttaat tgtacaaggt tgtctggcct gaagtacca acagtcaata ccaagatgta 120

cttacagtat aacaagatgg atagacttga accttacgac tccttttctg atacctttgt 180

ttataagctg atcatgttac tgtgtttgat acacccatga tgggtacatt gagaccattt 240

atgt 244

<210> 44231

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-D1

<400> 44231

gcgaccagcg ctcgtgacct ccagtcaaca gattcccaat ccggcgcttc tcatcccggg 60

tgggccgctc catttggtcg aatggccgat ggcgcccaag gccgagaaga agcccgcgga 120

gaagaagccg acggaggaga aggccgagaa gaagcccagg gcggagaagc gcgtgccggg 180

caaggagggc ggcgagaaga aggggaagaa gaaggccaag aagagcgtcg agacgtacaa 240
gatctacatc ttcaaggtgc tcaagcaggt gcacccggac attggtatct cgtccaaggc 300
catgtccatc atgaactcct tcatcaacga catcttcgag aagctggctg ccgaggccga 360
caagctcgcc cgctacaaca agaattccac cataacc 397

<210> 44232
<211> 288
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3076-004-Q1-K1-D10
<400> 44232

cggacgcgtg ggtgcgaatg gggagttctg gatctgttgc gatatctgcg agaagtgggg 60
ccatggcaag tgtggcctgg gcacccctgc aaaggcagag cacatcaatc agtacaagtg 120
tcccagctgc agcaccaagc ggagcctgga atgacatgct ccctggggca agactcgctt 180
ccacttgact aagcatttag aatcattagg atcattgaaa gtgtgaaact gtgtcattag 240
aatcacttcc tctgtttagt ggaccantat tttttctatt tttttaat 288

<210> 44233
<211> 357
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-004-Q1-K1-D12
<400> 44233

gcgcccacgc gtccgagcga atccctcgca tcgcattcgc agcctttgct gcatcacacc 60
agcgcgaaac cccagggggc ggagcgatgg cgccaaggc ggagaagaag ccggctgcga 120
agaagccagc ggaggaggag cccgctgccg cgaaggcccc ggcggggaag aagcccaagg 180
ccgagaagcg cctcccgccg gccaaatcgt ccggcagaga aggcggcgac aagaagggtg 240
agaagaaggc gaagaagtcg gtggagacct acaagatcta catcttcaag gtgctgaagc 300
aggtccaccc cgacatcgcc atctcttcca agggcatgtc catcatgaac tccttca 357

<210> 44234
<211> 92

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-004-Q1-K1-D2

 <400> 44234

 acataaaciaa tggcgaaggc tgtttctgtt ctcaatccgt ctctttctat tccgggttgg 60
 ctgtttcatt atggtcgaag ggcctatttc tc 92

<210> 44235
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-004-Q1-K1-D7

 <400> 44235

 cccacgcgtc cgcgcgcct cgccgcgatg atctccctgc tccgacgcgc cctcgccgcc 60
 tccgcctccg cctcgtatcc ggcggccacg taccggagac tctcgtcgt cgtgccactc 120
 tctccgcccg cgccccctcc agggccatgc caggcgcccg cggcagggtc gcaggagccg 180
 ccgaggcggg cgttccactg ttctacgcc cccctggggg tccaggtccac ccccgcgctc 240
 tgggcccgtc cctatccggg ggagggcgag ggcgagggcg tggatacggg ggctgagaag 300
 gggctggaga tcgcgaggct ggggacctcg ccgcggatcg tggagaagct cgccgcgcgg 360
 ggcacacca ggctcttccc catccagagg gctgttcttg agccagcaat gcaaggaaaa 420
 gacatgat 428

<210> 44236
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-004-Q1-K1-E1

 <400> 44236

 gtgagaacia gggccacaca tggcttaatt atgggaaggc tgtagaatag gagggttagc 60
 ttctgtaaga tgacgtgaag gctctagaag agatgtatca tcaatgagaa caggctgatg 120
 ctacttgggc attcacagtc cttgggtaca tcggcgaact tttatgcgga gtcgtaggta 180
 gaattgcttc aatagcttgg cttgcacata gtggcatata catggtgatt gatccttcac 240

tatctcctat cctgaatgat gtcaccttta agttgtattg tgtttgccgt ctgacttgca 300
ctgcttattt ggcattctac agcgtctatg cttcttattt gcaagtttcg ctgtcgagaa 360
gattcttgca gtttaatttag cgtttataac attttaccg ttaaaatggg gatgctcttt 420
aatta 425

<210> 44237
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-E10

<400> 44237

ggagaagcaa gaagtgggtca ttgagaagat tgtccgtaac aagcgcaa at gtgttactgg 60
ggtgaaaggg cttggattgg ggggtgtaaa gcttagtgat gcttctaaga agcttgggaa 120
gaagtttgca accggagctt ctgttggttaa gggccctacg gataaggagc aaatcgacgt 180
acaaggggac atctcatatg atattgtgga gttcattaca gatacatggc ctgatgtacc 240
tgagtcggcc attttcttca ttgaagattg aaggaatgtt cctgctgctt gatgccatat 300
ggtttat 307

<210> 44238
<211> 136
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-E11

<400> 44238

cggactcttg ggtcaaaacc cttttccctt ctcccttctc cctctctga tctagtgcgg 60
gaactcctac caaagctcgc gtcacctaca attccaatcc ctaatagctg atcatgctat 120
gactactcct tctatt 136

<210> 44239
<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-E2

<400> 44239

ttgacaacaa cggccgcaaa tggcggaatt atgtgtatgc ttcaaaacac gatttattag 60

tccgggtaca tctcatatag ggtctggacg aaacgtatac tcatcgagaa catgcctctg 120

tctcttgtcc attcacattc atgcccata taggcaaact 160

<210> 44240

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-E4

<400> 44240

gtgggaacaa gggccgaaa tggcggaata atgtgaaggc tttagaaaag gagttattac 60

tcctggaaga tgacatgaag gctctagaag agatgtatcc tcaaggagaa caggctgagg 120

ctacttgggc attcacagtc cttgggtaca tccggaaact tctatttggg gttgttgggt 180

taattgtttc aatagcttgg gttgcacata ttgtcatata cttgttgatt gatcctctc 240

tatcttcttt cctgaatgaa gtcttcataa agttggatgg tgtttggggg ctgcttggga 300

ctgctgcttt cgcattcttc tgcttctatc ttcttattgc agtgattgct ggggagatga 360

tgcttggatt gaagctagtt tttatcacia ttcacccgat gaaatgggga ggcactttaa 420

tgaac 425

<210> 44241

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-E5

<400> 44241

cccacgcgtc cgcgcgtctc cgccgcgatt atcttctctc tccgacgcgc cctcgccggg 60

tgcggtccg actcgtatgc ggcgggcacg aaccggagac tcctcgttgt cgtgccactc 120

tctccgcccg cggcccctcc aggcccatgc cacgcgcccg cggcagggtc gcatgagccg 180

ccgatgcggg cgttccactg ctctacgccc cccctggggg tcatgttcac ccccgcgctc 240

tgggcccgtc cctatccggg ggagggcgag ggcgaggcg tggtacggg ggctgagaag 300

gggctggaga tcgctaggct gtggacctct ccgtggatcg tggagaagct tggctcgcgg 360
g 361

<210> 44242
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-E6

<400> 44242

cagcaataga atgggtggcg gcggctggag cccggcagcg agcggcgagg gcagcgtcag 60
cgaggatgac tgagacgccg ggtagaaagc tgtcattgac tccatcacgt ccgggggatt 120
ctgctgtttt tagtactttg gttcatctca ggtcttctat attgtgaggc tttgtttatt 180
gaattaatct cattggttgc tctttttgtc ttatactctg tttgttattt ctactcttta 240
tttttttctg tattaaatct ttttatattt ttattgagtt tttttgtttt ttttgacttt 300
ttttgtttct atattttttg tttttatctt ttttttgtat tgttattttt gtttattatt 360
cttttgtttg taatctattt ttttatatta tttttccttc ttttatatgt ttgtggttct 420
ttttatttta tattcttttt cttttttttt 450

<210> 44243
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-E7

<400> 44243

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ggaagcacc agcagtcaaa accaagatgt acttagagta gaacaagatg gaaagacgga 120
acctcacgac gccgttgctg aaacctttgc tcagaagctg agcatgtagt gtgcttgta 180
cacccatgat ggggtacattg agaccattta tgttgtatta gtaatatatt gtttgattgc 240
ccaattaacg ggggtgagcca ttgtttcatc acaacatcga tgtgttagca gataaccaca 300
tcgccgtttt aagcaaacat tgagtgcgga attttgttgt ctttgtgaag tccgatgaaa 360
gcatcttctt ctgac 376

<210> 44244
 <211> 216
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-004-Q1-K1-E8

 <400> 44244

 ataaaaggag ttattagttc tggaagataa cgatgaaggg tctggaagag atgtattctc 60
 aaagagaaca ggctgaggct acttgggcat tcacagtcct tgggttcac tggaaacttc 120
 tatttggtgt agttgggtta attgtttcaa tagctttggt tgcacatatt gtcataact 180
 agttgattga tccttccta acttcttttc ttgaat 216

<210> 44245
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-004-Q1-K1-F1

 <400> 44245

 atacattttt cagttagacc aaggtctagg tattggatgc aaaaaccggt tctttaaccg 60
 tcatcaactt actctgacca gggtcatcaa tttaaataag caagagaaag gtgtccgcaa 120
 gccactacca gctgttttga atctatcatg gtcattatgc tgtttgcgtg ggtgatttgc 180
 cgagctatta cgccatggca cttggagggc cttattctgc taggagcttt agtaatggtg 240
 aactgggagc tactaagaat atacttgagg ttgctactga actgtgtgta cctgtctgaa 300
 acacaccggt ttatgcatat gtagaacatg ggactgacct tgggagttcc aaggatgtca 360
 aagggtaccc tacagagttt ttaaagcgtg ctggatcatg atcttcatat ggtgctgggg 420
 gtaatc 426

<210> 44246
 <211> 274
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-004-Q1-K1-F11

 <400> 44246

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catgcacctg gacgtggcct ggctcgacag cgtgcggcag ttcattggaca gcttcgggag 120
cgcttgcatt ccgctcgact cgctcttctg caacgccgac atctaccggc ccaactgcaag 180
gactctaca ttcacggctg actgatacta tttgagcgct tgcgtcaacc acctgttcca 240
cttctgctg gcacgcctgc tcttggaaga catg 274

<210> 44247

<211> 353

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-004-Q1-K1-F12

<400> 44247

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tcccaagtga cctgagccat gccacatgta gctcatgtcc taagctgccc ataaattcca 120
ttatgtttct agtcgtccac ctctagtcg gacgactaat cgatcatcagt caatgattaa 180
tcggatggcc agaaactaat caacttattg agttgtagct cccctgcgaa cagccccctgg 240
tctaactggg taggtgatgt agtagcaaac tctcanggtc tgagttcaat tcttagtgga 300
agcgaatttt catacctggg ttaaaaaatc cccttgctgg ttctcaccgc etc 353

<210> 44248

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-F2

<400> 44248

ctgacgcctg ggccgacgag tggctcgaat gaatatcatc ggcttatgga tatggagtgc 60
acatgtgaat tgcacgagtt gtctggcatg aagcaccag cagtcaaaac caagatgtac 120
ttacagtaga acaagatgga atgacggaac ctgacgacgc cgttgctgaa acctttgctc 180
agaagctgag catgtagtgt gcttggtaca cccatgatgg gtacattgag accatttatg 240
ttggattagt aatatattgt ttgattgccc aattaacggg gtgagccatt gtttcatcac 300

aacattgatg tgtttagcaga taaccacatt gtcgttttaa gcatactttg aattgctgaa 360
 ttttg 365

<210> 44249
 <211> 449
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-004-Q1-K1-A2
 <400> 44249

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 gcaaccgcga ccgcttggtc gccgcgtcc gcggccacat ctccgcctcc gcgcgcccgc 120
 tocacggcct cgtcctcctt cagggcgggg aggagaagac acggtactgc accgatcacc 180
 tcgagctctt caggcaggag agctacttcg cctatctctt tggagtgcag gaaccagggg 240
 tctacggcgc aattgacatc gcctctggac agtcaatttt gttcgctcca agattgccag 300
 ctgactatgc tgtttgatg ggtgaaataa aacctttgtc gtacttcagg gatacataca 360
 aggttgatat ggtctcctat gttgatgaga ttgcaagggt tgtgcaagat catttcggga 420
 accatggaaa gcctcttctg gttctgcta 449

<210> 44250
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-004-Q1-K1-A4
 <400> 44250

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 cgtggtcgcc gcgctccggg gccacgttta cgtctgcgtg cgcgcgatgc acgggctcgt 120
 cttctttgag ggcgaagagg agaagacacg gcactgcacc gaacacctgg agctgttaaa 180
 gcacgagagc tacttagcct atctgtttgg agtgcaagaa ccatggttct acggggcaat 240
 tgacatagcc tgtggacagt caattgtgct tgctacaaga ttgccagctg actatgctgt 300
 gtggatgggt gaaataaaac ctatgtagta cttcagggat acatacaacg ttgaaatggt 360
 cttgtatgtt gatgagattg caagggttgt gcaagatcat tttgggaact atggaaagcc 420

<210> 44251
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-A7

<400> 44251

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 cctgctcgcg cgcttactgt agccgcagct ttctccaccc ttggcgatgg aggcgcgat 120
 cgctcacgct ccattctgctc cggctcctgcg ccgctcgcgc agcctcaacc ccacgcccgc 180
 cgtcgggccg caccctaaaat cctggcaggg ggtgctttcg gcgaggcacc cgtcgaacgc 240
 cgtcaggtgc gagccgtccc agcgcgccaga ggcgcgcccg cgcctgcgcg cggcgcagcc 300
 ggctggcgct gacgcggcgg ccgggaggaa gcggtcggcg gtgttcgtgt ccggaggggg 360
 atcaaacttc cgggcgatcc atgaggccgc gctgggcggc gccgtgcacg gagatgtcgt 420
 cg 422

<210> 44252
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-A8

<400> 44252

cggacgcgtg ggcggacgcg tggggcggacg cgtgggttcc ccgcgtcaat cctgccgcct 60
 gctgctcgcg cgcttactgt ggcgcagct ttctccaccc ttggcgatgg aggcgcgat 120
 cgatcacgct ccattctgctc cggctcctgcg ccgctcgcgc agcctcaacc ccacgcccgc 180
 cgtcgggccg caccctaaaat cctggcaggg ggtgctttcg gcgaggcacc cgtcgaacgc 240
 cgtcaggtgc gagccgtccc agcgcgccaga ggcgcgcccg cgcctgcgcg cggcgcagcc 300
 ggctggcgct gacgcggcgg ccgggaggaa gcggtcggcg gtgttcgtgt ccggaggggg 360
 atcaaacttt cgggcgatcc atgaggccgt gctgggcgga gccgtgcacg gagatgtcgt 420
 cgcgc 425

<210> 44253
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-004-Q1-K1-A9

 <400> 44253

 aagaactgtc gatgtattgt agaagatgat cttgtagatt gttgcaaacc tggcgaccgt 60
 gtctcaattg tcggtgtgtg caaggctcta ccagggaata gcaagggaag tgtagtggt 120
 gtcttcagaa ctgtccttat cgcaataat gtgtcgcttc ttaacaaaga ggcaaatgca 180
 cctgtctaca ctcggaaga tctgaagcgg atgaaagaaa tatcaaggag aaatgacacc 240
 tttgacttac tgggaaattc tcttgctcca tccatatatg gtcatttatg gataaagaag 300
 gcagtagtac tgttgatgct aggtggtgt 329

<210> 44254
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-004-Q1-K1-B1

 <400> 44254

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 aggaacgtcc gtccgtccgt cggggaagg tgcaggagg aggcggagat gatcgaggtg 120
 gtgtcaacg accgcctggg gaagaagggt cgggtcaagt gcaacgagga cgacaccatc 180
 ggcgacctca agaagctggt ggcggcgcac acggggacgc gccccgagaa gatccgcac 240
 cagaagtggg acaacatcta caaggaccac atcacctca aggactacga ggtccacgac 300
 ggcatgggcc tcgagctcta ctacaactga gccgnncgcc ctctctccct ctggtcaggt 360
 tgggtctgaat tctgaagtca tgggtgcaat tcgcttcgcg gtgatctctt aagc 414

<210> 44255
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-004-Q1-K1-B10

<400> 44255

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cgggcgggat cgtgatggag ctgtacgcca acgaggtgcc caagaccgcg gagaacttcc 180

gogcgctgtg cacgggcgag aagggcggtg gcaagtccgg gaagccgctc cactacaagg 240

gctccacctt ccaccgcgtc atccccgagt tcatgtgcca gggcggcgac ttcacccgcg 300

gcaacggcac cggcggcgag tccatctacg gcgagaagtt 340

<210> 44256

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-B2

<400> 44256

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ggatcagagg agatatgcta ctcatggata agatttgaag aggagaatgg caccttggat 180

gattatgata ttgctgtaaa gaaggttacc actgggctaa aggagcttat gacattcatg 240

tctcaagagg aggctaaagt tgaggcttac cttaacctca atgataattc taatgcaaata 300

gattcctctc agaagctata accaagctgc aataaacagc atctctctgc taagaaaaga 360

aatgtgaatc catcaaatag taccatgcca tcagatgacc aaggatcaaa tgtgcaaagt 420

ggtctcagta ggtgctgtta c 441

<210> 44257

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-B4

<400> 44257

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gtgcacagat cttcgtgggg cacttggccg gcgacgaacg cccagcagat tatcgggtat 120

acatgcgccc aaccatgtcc tttaccgggt cgcgccctgc caatgatccc tgccctcgcca 180
 agatcctgtc caagcaaggg gacaacaaag ttctcttcgc ggacaaggta ttaaagttca 240
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 ttgaccctga ggccaacata ttgaagagga ggatagcact tgcagctgtg gataagctat 360
 gcattagcaa cctcagtgat aacttctttg cgatcattgt gccgactgag tacgattggt 420
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<210> 44258

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-B5

<400> 44258

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 cgctcacgct ccattctgtc cggctctgcg ccgctcgcgc agcctcaacc ccacgcccgc 180
 cgttcggccg caccctaaat cctggcaggg ggtgctttcg gcgaggcacc cgtcgaaacgc 240
 cgtcaggtgc gagccgtccc agcgcgccaga ggcgcgcccg cgcctgcgcg cggcgcatcc 300
 ggctggcgct gacgctgcgg cctgtaagaa gcggtctggct gtgtttgtgt tcgtatgggg 360
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<210> 44259

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-B6

<400> 44259

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 gcagcagtgg tgtcctccgc cgcggatcga gctcccgatc cgcgcagtgg gagtggcggc 180
 gagcgcagga gcgctcggcc ggggggttcg cgaggctgga gacggaggag gaagggagcg 240

gtagtccgc ggtggtagat ccgccggtcc tgtcgccgga gatggactca tctgtcgaga 300
 agcaggggag cgtggcgctg gatccggacg agcgcgcgcc ggcgtccggc gaaaccaagg 360
 cctgcaccga gtgccacacc accaagaccc cgctctggcg cggggggccc tgcggacca 420
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<210> 44260

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-C1

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 aacagatcta tgatggaaac agtgggtccag gtctgcatgt gcacaacggt ttccacaact 180
 gttcaagcca agagtcctcc aaccttctta atctctcaag aagtggacaa ttcatggcat 240
 cagaggggatg gcctttgaag aggttggctg tggaatctct ttctggtcac gagctccaac 300
 ctatgcagca caagtttgag aaagtgaatc accaaagtaa tgtgtctcac atttctagca 360
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<210> 44261

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-C12

<400> 44261

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 gcagtttctt gaacgggacg ccattgtggc tgcgcgatcc acttacactc tcattctgac 180
 ggtgtcatgg gagcaggaca atattcctga atacagattt tgtgaaatga tcctcgagag 240
 ctggcctaata caaaactcgt atgactctga agctaataag gaggtgaaac tgacagctta 300
 tttgtcgact taacacagac agtcgacaac 330

<210> 44262
 <211> 292
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-004-Q1-K1-C2

 <400> 44262

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 tgtctgagtc tgggtctggt ggtcaaacac aatcatcttt gctatgtgtg tcatcatacc 120
 aacatatcta tgatggaaac agtgggtccaa gtctgcatgt gcacaatggt tttcacaact 180
 gtccaagcca ttagtccttc atccttctta atttctcata gaagtggaca tttcatggta 240
 tcatatggaa ggcctttgaa taggttggct gatgaatctc tttctgttca tg 292

<210> 44263
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-004-Q1-K1-A12

 <400> 44263

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 ccaggcacac ctggtggtca accaatgacc ccaggcaatg ctggaatgga tatgatgtcg 180
 ccgataatag gtggtgaggg tgaagctaca tggctgctgc cggatgtttt ggtcaatgtg 240
 ttgagcggag gtgatgacgg tcctggtgtg gttaggaggg tactcgggga tggatcttgc 300
 cgagttgcac ttgggtcttc gggcaacggt gacatggtga ctgtcctttc gaacgaggtc 360
 gaggtcatca tgcccaagaa gaggacagg gtcaagatac tg 402

<210> 44264
 <211> 316
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-G4

 <400> 44264

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 tacttttagga atgaacacat taaaggagct ggagttgtca aggtgcaaaa agatctctga 180
 ggctagcaca tgtgagttgt gagaaacagg cacaactagg agccttttgg tccagaactt 240
 tatctctgaa caaatctgaa ttgttttgat gttcagtgat gaacaggcga tatattcttc 300
 ttaagaacca gtcctc 316

<210> 44265

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-G5

<400> 44265

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 ataagtaccg gccgaaaacc ctagacaagg tcaccgtgca cgaccagggt gtcagaacc 120
 tcaggaagtt tgtgtcggag caggattgcc cgcacctgtt gttctatggg ccgtcgggggt 180
 ccgggaagaa aaccctaata ctagcgctca tcaagcagat gttcggcgcc ggcgcggaga 240
 aggttaagct ggagaacaag acatggaaaa tcgatactgg aacaaggaca tttgagatag 300
 aattggc 307

<210> 44266

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-G6

<400> 44266

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 tggattggga aattgattac tggggttctg agttctgtga ctggaaaaat aatttccagc 120
 ttacttttagg aatgaacaca ttaaaggagc tggacttgct aatgtgcaaa tagatctctg 180
 aagctatcac atcttagttg tgagaaacag gcacaactag gagccttttg gtccagaact 240
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cttaagaacc attcctcctt gtaaataatt ttttaaaaaa ggtcttgcta tttgtcccaa 360
 attttttttt cttttaaaaa aaattttggg ttttttaaaa tttatttttt tttccctttt 420
 tttttt 426

<210> 44267
 <211> 322
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-003-Q1-K1-G8
 <400> 44267

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 gtcagcaaaa ctcggggaac tgggaagtgt acaaggaaca gcaggatcaa gccagcaacc 120
 ggagggagca tacgaatctt tgcagtacca actgggtcat ggatggcttc caggatgctt 180
 ggaagcatgg ctatggctgg ggtcctgcat ctatccagac cgatccatgg gacaactgtc 240
 aatatagcta tcaagtacct gacagccagg gctcgtacgg aactggact cactggaaaa 300
 cgtgaaacat tggacttttt tt 322

<210> 44268
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-003-Q1-K1-G9
 <400> 44268

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 ggtttctctc atgtgcgctt ggtcgtacca ttctcttatg ggaccatccg gctgaaaaac 120
 cgcaaggctt actgcgcgcg caaaggaggc ctacagtttc gtacgacgcc caaggcatgg 180
 tatttgctgt cgcctatggt ggccgcataa agatgtttga tattccgaaa ttcggaatgg 240
 ggccttttgc gaccttctct gtctgcactg atgattccga agcccatgtc gtacagttca 300
 acggtgattg caagcggatt ctgttaacca ctaaagctgg gcgtgttcat gtgctagaat 360
 cttttg 366

<210> 44269
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-H10

 <400> 44269

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 caccgcgtcc agtctaccat ccaatcggag accaagttct gggcggacaa gaagaagttc 180
 gggacagatg ccatatacgg atccgccctc aacatccgca aggatctcga tgcccaaadc 240
 ctctccaggt tccaaaggcc ccctggtgct ttgccgtcat ctctgcttgg atacgaggca 300
 ctgacaggtt ccttggatga ttgtggattt gaagattatc ttaacatgcc tcatgattct 360
 gacagtttcc gtcaacctga cctgcaccat ggaatggagg ttgccttgg gttgtccatg 420
 ggacctatct gtcctacctt caattg 446

<210> 44270
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-H11

 <400> 44270

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 ctggcgagcg gcggagcaag cgccagcggg tgggggacgg gcgcggcgga tcctcgccgc 120
 ctgcgatgac cccggaggag gccggattcg tcgcgtcct cgacgccgag ctgcacaagt 180
 tcaacgcctt cttcctcgag aaggaggagg actacgtcat ccggctgaag gagttgcagg 240
 acagggtggt gagcgccgcg gaggtggggt cggcggagga gctgctgcgg gtgcgcaagg 300
 agatcgtcga cttccacggc gagatggtct tgctggagaa ctacagcgcg ctcaactaca 360
 ccgggctggt caagatcctc aagaagtacg acatgaggac cggcgcgctg atccgcctg 420
 cctttatccg gaacg 435

<210> 44271
 <211> 88

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-H12

<400> 44271

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gaaaaaaaaa aaaagtaaaa tgggacat 88

<210> 44272
 <211> 248
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-H2

<400> 44272

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gttgagtgcg agctcccgtt gacggtggag atggacatgt tgctgcaatt catgcggaag 180

gcatggttca tcttgctgtg gctgtctggt tactagtata agatgatccg atcctacaat 240

cttgtagc 248

<210> 44273
 <211> 173
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-H3

<400> 44273

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atcttgatca agccattaac cttttggagc atactaatct ttgcagtacc aac 173

<210> 44274
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-H4

<400> 44274

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atcttatccg agctgctggg gggtgagtg c gaggtcccgt tgacggtgga gatggacaag 180
ttgcggcaat tcgggcggaa ggcatgggtc atcgtgcgtg tgctgtctgg ttacgaggag 240
aagaggatcc ggtcctacag gctgcagctg cagaagcgca tcgagatggc acaagctaga 300
acggaagagc tgcataaact gccagaaaag gttatct 337

<210> 44275

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-H5

<400> 44275

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gttgagtgcg aggtcccgtt gacggtggag atggacaagt tgccggcaatt cgggcggaag 180
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ccagaaaaag ggggggtttt tttaaaaatt ctttgggtcc gggggaaaaa ggggggtttt 360
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<210> 44276

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-H6

<400> 44276

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gttgagtgcg aggtcccgtt gacggtggag atggacaagt tgccggcaatt cgggcggaag 180

gcatggttca tcgtgcgtgt gctgtctggt tacgaggaga agaggatccg gtcctacagg 240
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 ccagaaaagg ttatc 315

<210> 44277
 <211> 346
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-003-Q1-K1-H7
 <400> 44277

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 ggggggagca gacgaatctt tgcagtacca actgggtcat ggatggctcc caggatgctt 180
 ggaagcatgg ctatggctgg ggtcctgcag ctattcagac cgatccatgg gacaactgtc 240
 aatatagcta tcaggttcct gacagccagg gctcgtatgg aactggact cactggagaa 300
 gggcgaaacc aaaaaatttt gggggaaccc tttgggggtt aagggg 346

<210> 44278
 <211> 251
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-003-Q1-K1-H8
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 gcgaccggcg atgtgtgtat atatgtact acatgttttag tgatgtttc cgagacctga 180
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 gatataacta a 251

<210> 44279
 <211> 395
 <212> DNA
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<223> Clone ID: LIB3076-003-Q1-K1-H9

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caccgcgtcc agtctacat ccaatcggag accaagttct gggcggacaa gaagaagttc 180
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ctgacaggtt ccttgatga ttttgattt gaagattatc ttaacatgcc tcatgattct 360
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<210> 44280

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-A1

<400> 44280

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tgactatgct gtttgatgg gtgaaataaa acctttgtcg tacttcaggg atacatacaa 360
ggttgatatg gtcttctatg ttgatgagat tgcaagggtt gtgcaagatc atttcgggaa 420
ccatggaaag cctcttctgt ttctgctaca 450

<210> 44281

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-A10

<400> 44281

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 ggccggggcg aaggtcggcg ggccaaggaa gaagtcgggtg tcgaggtccg tgaaggcccg 180
 tctccagttc cccgtcggcc gcacggggcg ctacttgaag aagggccgct acgcgcagcg 240
 tgtcggcacc ggcgcccccg tctacctcgc cgctgtcctc gaatacctcg ccgctgaggt 300
 tctggagctc gccggtaatg ctgccaggga caacaagaag actcgcatta ttccgcgcca 360
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<210> 44282

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-004-Q1-K1-A11

<400> 44282

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 ggcacctgga gcagcgggggt aatggggaag aagtggagct ggctggcg c aagggtgctgc 180
 gggccatagg aagaagtcag gagtctaggt ccgtgaaagc cgtgctccag ttccccgctc 240
 gccgcacgtg gcgctacttg aagaatggcc gctactcgca gtgtgtatgc tccggctccc 300
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<210> 44283

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-G3

<400> 44283

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 ttactttagg aatgaacaca ttaaaggagc tggagttgtc aagggtgcaa aagatctctg 180
 aggctagcac atgtgagttg tgagaaacag gcacaactag gagccttttg gtccagaact 240

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 cttaagaacc 310

<210> 44284

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-E12

<400> 44284

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 accaagtact actgcactgt cattgatgcc cctggacatc gcgacttcat caagaacatg 360
 atcacgggta cctcccaggc tgactgtgct gtcctgatca ttgactccac cactggtggt 420
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<210> 44285

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-E3

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 aacatatata tggaaaaagc cagaagattt gattcttcat tacagagtgg tccaaccgag 180
 atgatcacgg cttcagatca catggttctc agcatgcctg caccataaac ggtgtggttg 240
 aagacaccct tggcttagcg aggaaaccgt cagaaatatt ttgctcttgg gctccggtag 300
 cctttctcct agaaattccc ccccccggg gaaaaccttt tcggtttttg ggcctttttt 360
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<210> 44286
<211> 150
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-E5

<400> 44286

tccacaccta ctctctctca ttttttaatt tcccattcat tatcactacc tgggaccatt 60
gtaacatggt cccggatatt gcactcctat accaccaatc atccttccta ctacagcaatt 120
tcccattatc ccttaatctc ttataactccc 150

<210> 44287
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-E6

<400> 44287

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gtctcattct ctggaatttc ggacacctat ctcaattctc atcttccta ctacgtgata 120
tcacaatttc cctaaaactc ctatcatccc ttactactct ctctttata tcaca 175

<210> 44288
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-E7

<400> 44288

tccccacctg ctctctctca ctctgtccca tcaccgtcgc catcactacc ccggtcctgt 60
gctctcatcg gctgcaatgg cggacgccga cgccaagtcc cagccgcccg acgccgcggc 120
atccccggat gctcgcgtct cctccccctc ctccctaggc ggcggcgggc ggcacgcggc 180
cgacgcggac gcgatcgaga agcagctcgg cggcctgggc atcgccggcg gcggtgggtt 240
ccccgagcca tcgggatggg acgatggccc cgtaccagtc cccatcccgg gcgatgtcc 299

<210> 44289
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-E8

 <400> 44289

 ctcaactcgtg cgctcacacg tacctggatt caccaatctg tatcaccttt tcggaccggg 60
 ggagattctc cgtggattag gcataactat ctgaccacac atctcccttt ataagggcta 120
 ttagaatgac cctaacagaa agatcaacta cgactccagc atgctttaga tcaaacaaat 180
 cctgatgcac gtaaagaact taatcttgta agtaaaattc aactcataac gatctcacta 240
 ctactcagct cctactgcat aatgagtgtc acgcaatttg atactcactt accttgattg 300
 aggacgcata tgcattacac aaacccccct tttt 334

<210> 44290
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-E9

 <400> 44290

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 caatttatat atcttattat atatggctat tattttcaacc gtttcaggca atacaacttt 120
 atcattaaat ccaataatat ttgcatacc aatcctcact tctaacaact aatgtcatag 180
 ctaaactttg ttccactatc aactatactc atcatacaaa acataacgta acttctac 238

<210> 44291
 <211> 247
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-F1

 <400> 44291

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 tacggccact cttcggggag ttagatcttg tgaaagagtg ccagagagct ggtaacatca 120
 aaagagctat gcatatctgt gctttaccat agacactcac acgtcgactg acatacgctt 180

agtgctgcaa ctacaatagg tatcacagac tgggtgacat aaaccgctta catgtcaaga 240
ctgagca 247

<210> 44292
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-F11

<400> 44292

gcgcccacgc gttcgccac gcgtccgcac gattcacgct tagccgcaga gatccgtcac 60
acggcaagtt ttgaaaactg aactgtaaga gggcatcagc agagctttcc cgtgaggaaa 120
atgtgtacat ggcgaagctc gccgagcagg cagagaggta cgaggaaatg gttgagttca 180
tggagaaggt agcgaaaact gttgactcgg aggagctcac tgtggaggag cgcaacctcc 240
tgtctgttgc atacaagaac gtcattggag cccgccgtgc ctcattggcg atcatc 296

<210> 44293
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-F2

<400> 44293

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gggtttgatc ttgtgaagga tagggaaact ggtaactcaa aaggctatgc attctgtgtt 120
taccaggacc tcaccgtcac tgacatcgct tgtgctgcac taaatggtat caagatgggt 180
gacaaaaccc ttactgtcag acgagcaaac cagggggcat ctcagcccag accagagcag 240
gaaagtatcc tattgcaggc acaacaacag gtgcagttgc agaaacttgt gtatcaagtt 300
ggagcgcttc ctacaa 316

<210> 44294
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-F5

<400> 44294

cggacgcgtg ggcaccacgg caccagcggg tcagcggcca ccctagtcag tcagtcggag 60

cgaagccgcg cctcgcgccc tggcctcgcg accaccactg cttccagttc tgggtgcagtg 120

tggaagagcg cccagtggga gagattcaga gagagggcggc gatggcgcgg catttcgtgc 180

tgaacaccgg cgccaaggtc ccctatgttg ggctcggcac atggcagttc gaccccgcg 240

tcgtcggcaa cgccgtctac gccgtcgtca agggcgggta ccgacacatc gattgtgcca 300

gagtttacgg ggaaaaaaaa aatttttggg agggaaagga agggtaaatt tttttggggg 360

gggatatttt ttttttgggg gggg 384

<210> 44295

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-F6

<400> 44295

gaatgaccgg acgcgaagca ccctattact taactgaagc acaagttctt tataagcttg 60

aatcattcgg tcctcttagc gggtttggtc ttatgaaagg gggggcagct ggtaactcaa 120

aaggctatgc attctgtgtt taccactacc tcaccgtcac tgacatcact tgtgctgcac 180

taaatggtat caatatgggt gacaaaacc ttactgtcac acgagcaaac caaggggcat 240

ctcatcccat accagaacag gaaagtatcc tattgcaagc acaacaacat gtgcaattgc 300

ataaacttgt gtatcaagtt ggagcgtgc ctacaaaagg ttttttggg gttttaaatt 360

tgccccttaa accaaacccc aaaagggggg ttttttttg ggggtttttt ataataaaaa 420

cccccttttt tgggttctcc 440

<210> 44296

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-F7

<400> 44296

ggaaagtggg tgacaccgca caagtctcac cattccctca tagctacagt gcatctgcac 60

cttccgaaca aaacggtgat cagtcaaaca gctccaggta ttgcttagtt gccagcaaac 120
 aaatggtcgg catatttctc acggtctggg tgcgcaatga aataagagac gacgtcagga 180
 acttgaaagt ctcttgtgtg ggtagaggat tgatgggtta tctcggaaac aagggttcga 240
 tttcagttag catgtgcttg caccagacga gcttctgctt cgtatgttgc cacctgacct 300
 ctggggagaa ggaaggcgac tagctt 326

<210> 44297
 <211> 248
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-F8

<400> 44297

acgtcacgc gttctaaagc tacttgttca gctatatgac ctcagaagca atgaacaaga 60
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 gacttgtgta gtactgtaac gaaagcgtgc aactgtcgc aagtgtgaat gtgatctatc 180
 cttataaacg gctatttcag cgactgtaca acgtttctta tctgtaattg ccataccatc 240
 atcatgtc 248

<210> 44298
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-F9

<400> 44298

ggcgcccacg cgttcgtcca cgcgtgcgca cgattcacgc ttagccgcag agatccgtca 60
 cactgcaagg tttgaaaact gaacggggag agggcattag cagagctttc ccgtgaggaa 120
 aatgtgtaca tggcgaagct cgcctagcaa gcagagaggt acgaggaaat ggctgagttc 180
 atggagaagg tagcgaaaac tgttgactcg gaggagctca ctgtggagga gcgcaacctc 240
 ctgtctgctg catacaagaa cgttattgga gcccgtcgtg ccctatggcg catcatcttc 300
 t 301

<210> 44299
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-G1

 <400> 44299

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 gtaaattctc aacggaaacc ggatacaagg tcaccgtgca cgaccagggtt gctcagaacc 120
 tcatgaagtt tgtgtcggat caggattgcc cgcacctgtt gttctattgg ccttcttttt 180
 ccggttaagaa aaccctaata ctagcgctca tcaatcagat gttcttctcc ttctctgaga 240
 acgttaatct gtataacaag acatggataa tcgatacttg aacaaggaca tttgagatat 300
 aattggctta aaattttttt ttttttttt 329

<210> 44300
 <211> 229
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-G10

 <400> 44300

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 gttatctctc atgtgggctg gatcgtagca ttctcttatg ggaccatcct tctgaaaaac 120
 cgcatttctt actgctcgct caaaggacgc ctacagtctt ttactacgcc cattgcattc 180
 tatttgctct ctctatgga tgccgtatac acatgtatga tattcccaa 229

<210> 44301
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-G11

 <400> 44301

 gatattataa acgtcacctt gatagcgttt tctgcatcgc acttcgctct ggaaaagaag 60
 attttctctc atgggccctg ggtcgtagca ttctcttatg gcaccatcga tcttaaaaac 120
 ctcatggctt actgcacgct cacaggatgc ctacactttc ttacgacgcc cacggcatgg 180

tatttgctgt ctcctatggt agccgtataa acatcgttga tattctgaaa ttctgaatga 240
ctccttttgc tacctttctct gtctgcactt atgattctga agcccatgtc gtacactttc 300
aacattgatt gcaggctgat tctgttaacc actaaatcta gtectgttca tgtactagat 360
tctttttaat gcaacatcat ttcac 385

<210> 44302
<211> 239
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-003-Q1-K1-E10
<400> 44302

cccacgcgtc cggaggtcac tgcttgaggt gaacaaggct ctgcagaagg aacttgcgga 60
gaggcataag gccggggcga ggctgcagca tcagggtcag tgggaccagc atacacatgc 120
ccaggccccag acatgctcat catcgctctc cttcatgatg aggcattgatc agcatggatt 180
gcctttcttca cacaacatct gcttcccgtc gttgacaatg gtagatagag gttaagagc 239

<210> 44303
<211> 295
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-003-Q1-K1-G12
<400> 44303

gatattataa acgtcacctt gatattgatt tctgcatctc actatcctct ggggtatatg 60
tttttttcta atgggggctg gaccttccaa tactttaatg ggaccatcgg gcttaataac 120
ctctatgctt actgttcgct cataggatgc ctacattttc atactactcc cattgcatga 180
tatttgctgt cgcctattgt ttcctgatac acatttttga tttccttaa attcttaatt 240
tgtccatttg ccaccttctc tgatcatctc gattatttgt aatcccatgt ttac 295

<210> 44304
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-003-Q1-K1-G2

<400> 44304

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atcttgata tggattatat gaacaggatt ttggaaaatg gattactgtg cttgttaatt 120
ctgtgactgg aaaaataatt ttccgggatac tttatgaatg aacacattaa aggagctgta 180
gtcttcaatg tttcaaaaag atctctgatg ctatctcatg ttaaattgtc agaaacttcc 240
acatctagga tcctttttgt ccataacttt atctctttac acatcttaat tggtttgatt 300
ttcaacttatt aacatgctat atattttttt ttataaacca ttactccttt tttttctaaa 360
tatttttaaa tagcttgatc tattttgttc cccaatattt ttttcttttt atctatatat 420
ttttttgata ttttttcaat attt 444

<210> 44305

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-B12

<400> 44305

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atatgatatc aagggggctg gggctaata tgaactcttt gatgcatatg acgattgcat 120
gaggatgcat ccacgatctt cattcatggc cttctttgag gtgggttaa at ggattaagt 180
ttacctgcta agatgtttta atgtatgcta tccattcttt gctgttaata t 231

<210> 44306

<211> 110

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-B2

<400> 44306

tttgggtttt tgaggggggt tttacggccg ccccaaaaat cctttttttt ggtggaaacc 60
cccctcccgg ggggtttttt tttataacc caaaaaaccc tttttttttt 110

<210> 44307

<211> 313

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-B4

 <400> 44307

 gcgcccacgc gtccgccaac gcgtccgcgg acgcgtgggt gcaaccagat gacgttgtgg 60
 ctgacgaaga tatgcgatat gaatgtgatg ataatcgtga actgaaacca aaagagaaac 120
 cagtcggtcc accactagac ttggtgggtc catttaagca accaccagct cgacctgaca 180
 aaatgaatgt gatcaaggta tcaaacatta tggggattga ccctaaaccc tttgatccaa 240
 aaacgtatgt ggaagaagat gtttttggtta cagatgaatc tgggactaag aaaaggatac 300
 ggctagagga caa 313

<210> 44308
 <211> 257
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-B5

 <400> 44308

 cggacgcgtg ggcgccgtct gccttctggt cctccatttc ggctctgtc ccttgcaagt 60
 gcactctcgc ctgcaaccat gggtaaagag aagtcccaca tcaacatttg ggttattggc 120
 ccattcgact cttgcaagtc gaccaccaca ggacacctta actacaaact ttgaagcatt 180
 gacaagcgtg tgatccatag gtttgagaat gatgctgctg aaatgaacaa gctggccttc 240
 aagtacgcct tgggtgct 257

<210> 44309
 <211> 320
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-003-Q1-K1-B6

 <400> 44309

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 tcagtctcgc ctcgaaccat gggtaaagag aagtcccaca tcaacattgt ggttattggc 120

catgtcgact ctggcaagtc gaccaccaca ggacacctta tctacaagct tggaggcatt 180
gacaagcgtg tgatcgagag gtttgagaag gaggctgctg aaatgaacaa gcggtccttt 240
aagtaagcct ggggtgctga caagctcaag gctgagcgtg agagaggtat caccattgat 300
attgctctgg ngggggggggg 320

<210> 44310

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-B7

<400> 44310

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atgcgatcac cggtgccatg ggtgctgcat aggccattgg cttgggcaga agaactggtg 120
tccagtatgc aaagcgtctg ccgtgccttc caagggctga agcattgggg atgctggaaa 180
ccccgttccg gattacaaac cattcttget tttgtctacg tacattgatc ttttacctat 240
atgcattata tatagatcat gtctagattg atgacgctag aacagcttgc gatttgggag 300
gaagctaata ataattgttt tt 322

<210> 44311

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-B8

<400> 44311

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gtgcgagcac cggtgccatg tgtgctgcat aggccaatgg cttgggcaga agaactggtg 120
tccagtatgc aaagcgtctg ccgtgccttc caagggctga agcattgggg atgctggaaa 180
ccccgttccg gattacaaac cattcttget tttgactacg tacattgttc ttttccctat 240
atgcattaga tatagatcat gtctagatgt atgacgctag aacagcttgc gatttgggag 300
gaagcttata cccaaaaggg ttttaatat agtttaagaa cccttttggg ggggtttttt 360
tttaaaaaaa tttttataaa atatttttaa taaaggattt tttttttc 408

<210> 44312
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-C11

 <400> 44312

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 atagaactgt gaggctccaa gtctgggata ctgctgggtca ggaaagattc aggagttaa 120
 ttccaagcta tattagagac tcttcagttg ctgtcattgt attcgatgtt gcaagcaggc 180
 agtccttctt aaatacatct aagtggatag aggaagtctg cactgagagg ggcagtgatg 240
 ttatcattgt gcttggtggg aacaaaactg accttggtga caagaggcaa gtctcaatag 300
 atgaaggggt aggcaaggct tatgacctg gagtcatgtt tattggaac 349

<210> 44313
 <211> 195
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-C4

 <400> 44313

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 gtagtctcga gtatttgctc gaggagacca cccaccagaa cggagccttc ttgtcgccgg 120
 accaggcatc gattcgcaca ctgtatgagg cgatgctgaa agaaaaaaaa aggaaggcag 180
 caccgatgtt cggtc 195

<210> 44314
 <211> 115
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-C5

 <400> 44314

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 tcctctttcc aaggagctg gactctaacc tttgtaagct gtccgacaac ctgat 115

<210> 44315
 <211> 303
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-C6

 <400> 44315

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 ggcgcttccc ggggcagctc agctcggacc tccgcaagct ggccgtcaac ctgatcccgt 120
 tcccgcgcct gcactttcttc atggtggggt tgcgcgcgct cacctccagg ggctcccagc 180
 agtacgcgcg cctgacgggtg ccggagctta cccagcagat gtgggacgcc aagaacatga 240
 tgtgcgcgcg ggacccgcgc cacggacgggt acctgacggc gtccgacatg ttccgcggca 300
 aga 303

<210> 44316
 <211> 268
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-C7

 <400> 44316

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 ggcaccattg atggcccaga gtgtctcaac cttatggatc tcaatatgaa cgacaccgcc 120
 tctgatgaag atcatcacgg aggccttcgc tgtgtcagac acggaccaga acggcttcat 180
 ctcggccgac gagtccgcc atgtcattac aaatcttggc taaaagctat ctgattaaca 240
 agtgaccgat atgaaccaat aggctcat 268

<210> 44317
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-C8

 <400> 44317

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ggcaccatag attgcccaaga gtggctcaac cttatggatc gcaatatgaa cgacaccgac 120
tctgatgaag atctcacgga ggccttccgt gtgtcagaca cggaccagaa cggcttcac 180
tccgcgcgacg agctccgcca tgtcatgact aatcttggct agaacctaac tgattagcag 240
gtgaccgata tgatccaata ggctcatctc gctgggtgaca tgcagatcaa cta 293

<210> 44318

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-D3

<400> 44318

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cgtacttgct agccgaatgc gggatatgata ccagtgtagt gattactgca catgttcaca 120
aaattgccgg aaccgagttg tacagaaagg tacgcagatc cgttttgaag tttttaagac 180
aggacatcgt cgttggggcc tccgtagttg agatccaatt ccagcacgca catttatctg 240
tgaatatgca cgtgaaatca ttgacgtaaa tcgagtgaat ggtcaagatc actacatatt 300
tgagacttct gctt 314

<210> 44319

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-B11

<400> 44319

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aaaggagatc aagtgggggtg gggctaagca tgaaccggtt gatgcagatg acgatggcag 120
gaggatgcat ccacgatctt cattcaaggc cttcttggag gtggttaaat ggagaagtgt 180
tccctgggaa gatgttgaaa tggatgctat ccattctttg cagttaatat tacgtggctc 240
cctgccagat gaagatgcca acagaaacaa tgtaagggtc attgtaaaag ctccatctga 300
tgatatgaag aagatacagg ggctacttga actgagaaca gttacaaatg agatgggtccg 360
cttaattgag acagcaactt gccccgtctt ggctgtcgac 400

<210> 44320
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-D4

 <400> 44320

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 cgtacttggt agccgaatgc cgttttata cgagtgtggt gattcctgca catgttcaca 120
 aaattgccgg aaccgggttg tacagaaagg tacgcagatc cgttttgaag tttttaagac 180
 aggagatcgt ggttggggcc tccgtagttg ggatccaatt cgagcaggca catttatctg 240
 tgaatatgca ggtgaaatca ttgacataaa tagagtgaat ggtgaagatg actacatatt 300
 tgagacttct ctttt 315

<210> 44321
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-D6

 <400> 44321

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 gggaaccagc accggggccga gcacgagctt cagtctctct gagaatacgt gaaggagatc 120
 ctcataccag agtgcaacgt tcaaccctg aatagccctg tgacggtttg cggcgacatc 180
 catgggcagt tccatgacct gatgaaactc ttcgcgactg ggggccactt tctatagacc 240
 aactatatta tcatgggtga tattgagtac cgtggcttta acagactgga ggttatcacc 300
 atcctg 306

<210> 44322
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-D7

 <400> 44322

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gaggaccagc accgggcccga gcacgagctt cagtctctct gcgaatacgt gaaggagatc 120
ctcatcgaag agtctaacgt tcaaccggtg aatagccctg tgacggtttg cggtgacatc 180
catgggcagt accatgacct gatgaaactc ttcgcgactg tgggccacgt tccatatact 240
aactatattt tcatgggtga ttttgtggac cgtggcttca acagtctgga ggttttcacc 300
atcctgttag cttttaaaccc ctttttaaaa aataatcgaa agaggtatta aaatttttct 360
atcctttttt gggatcctca t 381

<210> 44323

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-D8

<400> 44323

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gagggccagc acctcgccga gcacgagctt cagtcgctct gcgaatacgt gaaggagatc 120
ctcatcgaag agtcgaacgt tcaaccggtg aatagccctg tgacggtttg cggtgacatc 180
catgggcagt tccatgacct gatgaagctc ttcgcgacgg ggggccacgt cccagagacg 240
aactatattt tcatgggtga ttttgtggac cgtggcttca acagtctgga ggttttcacc 300
atcctgttgc ttttaaaccc cttt 324

<210> 44324

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-D9

<400> 44324

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aaattcacca agcgggctag gggctactaa aagttcctag ggctcaatgg ttattcctac 120
cgttcatgaa tcacttcac c aatacaatcc atgatctact gtgttatgta ttgctgaact 180
aactaatgca actgcatctc aattatttaa ctggacttga tttttattgt catatgatcc 240

tgtgttggct attggtaccg tttatgttgc tacttcaact caagctcatt aatttcattg 300
 tgtgttgatg aaattgcttc atgattatgt tattccctat tttcttgcac taaccctgat 360
 tatttattaa gtttccttac ctctttaata cttttttgtt ccttgctttt tattcttatt 420
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<210> 44325

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-E1

<400> 44325

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 agacagcgag accgaccac gccgatggcc accgtccacc ctcaatcccc gccgggtccc 120
 acccatctcc cgcaggagga ggcacacggg gacgccccgg taccgccccg cgtctccggc 180
 gaacccgccg ccgcagcgga gccggggcgg gagatcgccg cgctcgacaa gcagctcgcc 240
 gtcgtcgagg gcggcgagga gaggaggccg gccggggcgg gccggggggc cgtcagcgca 300
 gccggggggg ggaaagcctt tttgggggtt ttggggg 337

<210> 44326

<211> 296

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-002-Q1-K1-E4

<400> 44326

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 accgcggatt ttgctagggg ttgcggtttc tgcttcacac tgctcctca gtcctcacca 120
 ccacagccgt cgcgcgcagg agggtaggga ggatgccacg taagatcacc ttggtcaagg 180
 agggtagacc gcagccggtg gacgctggtc aaggggagcc cgctccggca ccggcggcac 240
 cgacgtgtcg tgttgacgga tgcggangtg gacgagctgc ccagggccat cgtgcg 296

<210> 44327

<211> 173

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-E7

<400> 44327

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 gcgggacgat caaccctact ggctttctgg acagtgcag tgacattcga gagctggtct 120
 tcgtatgcgc tgaatatgga gccagggtag tgagagatac atacttttct ggg 173

<210> 44328
 <211> 373
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-002-Q1-K1-F2

<400> 44328

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 tgaaggggca ccaccagagc tcacgtcccc aaatccagcc caatgaacct ctgtttctgt 120
 tttctctttg gcgccttaat cattttctgt tggacagtgc tggatcgttg atcggggtac 180
 tgttagatga cactgggtgt ttatgttgac ttttcctccc caataatctt ggatcgagcg 240
 atgtgataaa gctggccatg cacttcttcc agattctgta ttcggtatgg ntaaaatggg 300
 ctccctttca taacctctga agaagagttt tagcaccgtc catattcgtc atgagttctg 360
 tactatgctt tct 373

<210> 44329
 <211> 121
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-F6

<400> 44329

tgtcaaacat gctgacctgc ggtcgaagaa tcgatata tatacttat cttgcttcgt 60
 gctgtctgaa gataaacatt atatatcttg tttcctttgg agaaatatta gcaattttag 120
 c 121

<210> 44330
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-002-Q1-K1-F7

 <400> 44330

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 gtccaccggc accggagcag ggggtaaggg gaagaaggga gcggccgggc gcaaggtcgg 120
 cgggccaagg aagaagtcgg tgtcgaggtc cgtgaaggcc ggtctccagt tccccgtcgg 180
 ccgtgtcggg cgctacttga agaagggccg ctacgcgcag cgtgtctgca cgggcgcccc 240
 cggttaccta ggcgctgtgc tcgaatacct cggcgctgaa ggtctggagc tcgccgggaa 300
 tgctgccaag gacaacaaga agactcgcat tattccgcgc caagtgcttc tggcgatccg 360
 gaacgacgag gagctttggg aagct 385

<210> 44331
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-002-Q1-K1-G2

 <400> 44331

 gtgcttaaatt gtaaatcaat gcccatggat gaacaaagtg caaatcttca acaaaggtat 60
 gtttctaagt cttagtacat tggttttgtg tactaatata tttgtctaag tgtagaaac 120
 agaaagaaga agagaagaga agacttggt gtgtgcagcc aaggggctgc ttcggtctag 180
 ggaccggac tgtccggtgg tgcaccggac agtgtccgat ggtgcaccgg acagtgtccg 240
 gtgcgccagg ccggcttggc cgaagaggcc gctctcgggt ttttctccgg cgacttcggc 300
 taaaattcac cggactgtcc ggtgtgcacc ggactgtccg gtgagccaac ggtcgggcgg 360
 gccaacggtc gggcgcgatga tcggcgcgcg acacg 395

<210> 44332
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-G4

<400> 44332

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gcgtctcctt gagctcttag ggacaagcag aaaataaccg tttgatgagc tttcctctca 120
tttaagtagc gtgggtgaaag ctatttggtt gaggttcttt aggattcgcg ccgctgtgtc 180
actcttagtg agaccaggca ttctcgtggt gtgaatcttg tatcatatct tagtcacacc 240
ttgccttgga ttcgtggcaa cgaatgtaat gtttgatagc ttagaccctt c 291

<210> 44333

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-G6

<400> 44333

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cattgcagaa tcagagaacc tgacatattc gcttctgcat gattcatcca atggcgcagc 120
aggtggcagt gttcaggcag atggctctat gcaaacacca gagaatttgg accatctgat 180
tgtgcagagc aatcctgttc caaatgaagc tcacctggat gactttgcgg gtgccccgcg 240
taatcaatta ccaatagaag aagaagaaga agctcatcat cctgagatgt caaggctgga 300
gcctacaaac attctgttcg agttcgatag ggtttaagcg gtgacctgcc tggctgcctc 360
atcagcatat ccctaacca tgaataataa atcagtgcc ttgaggtgcc cctttctagg 420
tctcctgcat atgagacatg tctggtgtcc cct 453

<210> 44334

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-G8

<400> 44334

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ttgaaccctc caatactgta aatggcatgc aaattgaaga gacggaagat gctccagagg 120

acttggatga cttgcagacg gaagaaacgg aagagtcttc agatgaagat ttagatgatg 180
accgtgtgat taacattgct ccccgcaagt ccaataagcc agcagttcga gagaacataa 240
agcatgaagt gaataaggac tcacagttac aaaagcgtcc aaggattgaa gagacttccc 300
tgccaaagaa gaggcagaga tctgaagcct catctgaacc tataaaaagg aatggagaac 360
aacatgtttc agttactcta gacactagaa cgcagggcaa gactgtgcct ggaaaatcag 420
aagccagcca aatgaacag aagtctctgg attttgaagg aaaaagaaca tatgat 476

<210> 44335
<211> 150
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-H1

<400> 44335
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gtcggaaacc tagcttttgc ggcggctgcy gccgatagaa gatgatctac gacgtgaact 120
ccccctctt cgttctctc ctcagccaga 150

<210> 44336
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-H5

<400> 44336
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aagcacacga ggcaagggtg acgactgacg agagggggag agagagaggc gaggaaggag 120
ggagagagca cgggggcttg atcgaagatg gatgccggag caaagggtgt gaagaaggcc 180
gcggctgtgc gtcgcggcgy gggctggccc aagaagaagc cgttctctcg ctccgtga 238

<210> 44337
<211> 152
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-H6

<400> 44337

ctgacgcgtg ggcggacgcg tggtcggacg cgtgggcaca acgaagacac aaacgcacag 60
gagcacacga agcaaggggtg acgactgacg agagggggag agagagaggt catgaaggat 120
ggagagagca cgggggcttg atcgaagatg ga 152

<210> 44338

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-002-Q1-K1-H8

<400> 44338

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aagaaagaag aggtcatggc ggtgtagtct atcagctgag tgggaaagag tggagcaatg 120
gtggggggct gtgccagcgg cgacggcgcc gccgaaggga cgctcgcgag gtggcggagg 180
gcggcgggcca agcggatcgg cctctcatgc gctncttct tctcctacgc cgcctctccc 240
tccccgcctg cttccaagac catctccac tccgcactga atgcgcctga tggagagcag 300
caaangatgg aggaaccac cagcaccaga gtggctgaca agaattctatg tgcaatatgt 360
ttggaactcc tcagcacgag catcagcagc gatgttgata gtggtgaggc gggagcaatc 420
tacacagcgc agtgcttcca ctcatcca 449

<210> 44339

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-A1

<400> 44339

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gagcggagaa gagcgcaaga tgttcggctt cgggcaccac ggccaccacg gccagaaccc 120
gtcggcgcac ggcggcgtgc accagcccac ctttaagatc ttctgcaagg ccgacgagg 180
gtactggctc accgtccgag acggcaacgt ggtgctggcc cccggcaacc cgcgcgacga 240
gcaccagcac tggtaacaagg acatgcgctt cagcacccaa gtcaaggact aagagggcaa 300

ccctgcgttc gccctgggtca acaa

324

<210> 44340

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-A12

<400> 44340

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ggggagtcga gtcgagacca gcttgggtcc gtcataaaaa gtcacttag ttgttgtccc 120

cgcctctttt tttcgtgtt cttgtttgat tacatcatct tattttgtgc ttgaatctaa 180

cctgccatta agtttttatc gtttcgttat ttctctgggtg tgcttgtcta gttcctttgt 240

tgctctaacc atggacgcag gtcctcgctc g 271

<210> 44341

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-A3

<400> 44341

cggacgcgtg ggccctgtcc cgctaggatt ccccccaaac cctcccccaa aaccccagag 60

cggagaagag cgcaagatgt tcggcttcgg gcaccacggc caccacggcc agaaccgcc 120

ggcgcacggc ggcggtgcacc agcccacctt caagatcttc tgcaaggccg acgaggggta 180

ctgcctcacc gtccgcgacg gcaacgtggt gctggccccc gccaaaccgc gcgacgagca 240

ccagcactgg tacaaggaca tgcgctttag caccaggtc aagg 284

<210> 44342

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-A5

<400> 44342

cccacgcgtc cgcccacgcg tccgccacg cgtccgcgga cgcgtgggca tcgagttggg 60

attccatgta tttggtacca tcgtgagagt tccttgaagg agcgggctaa caatttacag 120
tcttttcggg aaaatggtgg tgtgcttgta tgcactgatg ctgctgcccg tgggcttgat 180
gttccaaatg tttctcatgt cattcaggca gaatttgctg cctgtgctgt tgattttttg 240
cacagggtgg gccgcacagc cagagctggc caatctggta tagttactag cctatacaca 300
gaggcaaadc gtgaatttcc cttttggggg ggtttaaagc agcccaaggg gtttttt 357

<210> 44343
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-003-Q1-K1-A7

<400> 44343

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cctaggtgtg cttgagctat gcagttcatc agcgtgcttc ccctagaggg aaaagcgtgt 120
atgagcccag tgaggaaagg cagtggacgt tatgggagtg agaggatgag gatcaactgg 180
tgcaatatca agcgcaacaa ggcactaagg atgatgtggt tcattgcaag ggggtgctgct 240
agcagcacc agtgtgtgct cacatcagat gctggcccag aactctatg tcgtccgaac 300
atgacttcgg aggaaattt 319

<210> 44344
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-E3

<400> 44344

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gccacctagt gttcctggag ttggtcagca gctgttttat ggtcagccac ctccagcctt 120
catcaaccct caggctggat ttgctttcca gcaacctatg atgcctggta tgaggcctgg 180
tgggtccaatg ccgaacttta tgatgcctat ggttcagcag ggacagcaac cgcaacgtcc 240
tgc 243

<210> 44345
 <211> 316
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-A8

 <400> 44345

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 cctaggtgtg cttcagctat gcagttcagc agcgtgcttc cctagagggg aaaagcgtgt 120
 atgagcccag tgaggaaagg cagtggacgt tatgggagtg agaggatgag gatcaactgg 180
 tgcagcatca ggcgcaacaa ggcactaagg atgatgtgtt tcattgcaag ggggtgctgtg 240
 agcagcacc cagtgtgtgt cacatcagat gctggaccag acactcttgt cgtccgaaca 300
 tgctttcgga agggggg 316

<210> 44346
 <211> 111
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-B1

 <400> 44346

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 ccccgcttcc aaaccttttt ttggtaaacc cccctctgt ggggtgtttt t 111

<210> 44347
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-003-Q1-K1-B10

 <400> 44347

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 ctcccgggga gtccggtcta gaccagctgg cctccgtcat aaaaagctca cttagttgtt 120
 gtcccgcct ctttttttcg ctgttcttgt ttgattacat catcttattt tgtgcttgaa 180
 tctaacctgc cattaagttt ttatcgcttc gttatttctc tgtttgtgct agtcttgctt 240
 ttttgttgct ctaaccatgg acgcatgctt ccgctcgatc tcctcggcga agaaccgcgc 300

cgtcttcgt

309

<210> 44348
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-A1

<400> 44348

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caaggagcag gcggaggagg agctgtgccca agccacaatg ggtatctcgc gtgactcgat 120
gcacaagcgc cgggccaccg gtggaaagca gaaggcctgg aggaagaagc gaaagtatga 180
gcttggtcgc cagccagcca acaccaagtt ggcaagcaat aagacagtga ggagggtccg 240
ggttcgtgga gggaatgtga aatggagggc tcttcgcctt gatactggta actactcatg 300
gggaagtga gctgttacc gcaagacc 328

<210> 44349
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-A2

<400> 44349

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cttggtttat tgctcaacct taaccccgga cttgttcttc tacaggacag cgggtacagc 120
gctagttatt gcttcacctt ccttatcttt gctgcagcaa ctggaggccg aggcttttac 180
aaggagctgg ggaagaatgg gcagaagctg ctatcgaatc tgaagctttg cttggcacac 240
cagcactgga gagat 255

<210> 44350
<211> 124
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-A3

<400> 44350

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gcttgcaaac ggggtggcttc ttcggcgagg cttccccctt ggtaccaggt tggcctttct 120
tttc 124

<210> 44351
<211> 394
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-002-Q1-K1-A4

<400> 44351

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gatggcacc c aaggcggaca agaagccggc ggcgaagaag cctgcagagg aggagcccg 120
gacagagaag gcggagaagg ctccggcggg gaagaagccc aaggccgaga agcgcctccc 180
ggcgagcaag tccgccggta aagagggcgg cgagggcaag aaggggaaaa agaaagcgaa 240
gaagtccgtg gagacctaca agatctacaa tctcaaaggg ctgaaacang tgcaccccg 300
cattggcatt tcgtgcaaag gcatgtccat tatgaacttc tttattaacg acattttcg 360
gaaactcgcg ggcgaatccg gcaagctggc gcgc 394

<210> 44352
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-A6

<400> 44352

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agatcggggt gaaaggcgtc gtggggaaga tgccattgag agatcaacag atagattgtc 120
ggacaggaga gaacgttcca ttgaaaggat gcaagagaga .ggtacagata aagcccttga 180
aaaaggtaga gaggatagaa ataaggatga gaggaataaa gttaaatatg ctgaaccttc 240
ggtggaccgg acacattctt ctgatgaacg attccgaagg caaagggttg caacggcccc 300
aactatttcc ggaaggtttg gacccaatc aattggcgcc aaccgacgtg aagaagatgc 360

tgaccgaaag ggtgggagct tcaagcatgg tcaaagggtca tcttctaagc acgatgagaa 420
 agaaaggaag cagtcagagg agaataatttc gtcatttcag gatgatggg 469

<210> 44353
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-A7

<400> 44353

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 gccccgtcgc gccccgcgcc cactacctcc tccgcccgtc cctcgtcggg tcttggaccc 120
 gatcgggctc cgctccttct ccgccggcgc cgccaccgcg tcgcaggcgc cggccatggg 180
 ggccaccgta gtcggcgggc tcatgggcgc ccggttcccg aagcgccggc cgggcttcgc 240
 caaccgagag atgaggggta gcttgcgccc cagagggtccc tactactggg tgaagtgcaa 300
 gcctgacgag cccataccag ttaggcagcc gaaccaaggg agcatttcgag ggaggaagga 360
 gaag 364

<210> 44354
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-A8

<400> 44354

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 agaaacactg tcttgtagtg taatcatgtt atattttctg ttctgaacaa attcaaagaa 120
 atctcatgga gacaaacttt gatagtacaa gttggaggtc tcgaatttta aggtaatat 180
 gcgctagtat tgctatttgc agtattgatc tttgttgggt caacctaacaa ttagattgat 240
 gtgaatgagc tgctgtagac gtttgattta atctgcatgt gctatttttg tggagtttga 300
 tatgtatgtg cttacatttc gtgacttagc aataccgggt gtatgctgag aatgttgaaa 360
 agctattacg ttttctgtga acagttgtgt 390

<210> 44355

<211> 331
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-002-Q1-K1-B3

 <400> 44355

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 gtgaccagag cgagagctag ctagagggcc gtgaaaatgc cgatcaatag gatcgccctg 120
 gggagccacc aggaggtgta ccacccgggc gccctcaagg cggcgttcgc tgagttcatc 180
 tccacctca ttttctgttt cgccggccag ggctccggca tggccttcag caagctgacc 240
 ggcggcgggc cgacgacccc ggggggcctg atcgcgggcg cggtgggcga cgcgttcgcg 300
 ctgttcgtgg ctgggtctgt gggcggaac a 331

<210> 44356
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-002-Q1-K1-B5

 <400> 44356

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 gcttggactg agcttttgaa tgctttttgc acgagtggca gactcgaact ggaacttata 120
 cacaaagttc agacacagtg ctatgaagat gctaagctga tgaagctgtt tccggaaatc 180
 ataagaacac tgtatgacca agatgtccta gctgaagata ctatagtcct ttggttccgt 240
 aaaggttcaa acc 253

<210> 44357
 <211> 308
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-002-Q1-K1-B6

 <400> 44357

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 atgcttttta ggtgccgagc ttgtcagagg acctcagagc tgctgggttg ggtaaggat 120

gtcttccaac aatgcgctcc tggttgggat agggatgctt tgttacgcga gcttgagttc 180
 agatgtaaga tattccgttt aagtgaggat gcaaaaggga gagtgttgtt caggaaatgt 240
 ctagatctaa ttaaaaggct aagaacactc cagctgattc catcaatcct aggatgattc 300
 tacaagca 308

<210> 44358
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-C1

<400> 44358

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 cgtcgaccgc ggaggcgagg aacatcaaga cgacgacgac gacgacggag aagaaggacg 180
 atgcggtggt gcagccgcag acctttccgg ccttcgaccg cctcggcggc gccgcgtccc 240
 cggcgttcgg tggccttccc gggacctcgt cgggcggcag cagcattcca gcgttcagca 300
 tgccgggcag cggcagcagg cttcccggcg ggtcggtc 338

<210> 44359
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-C2

<400> 44359

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 cgatatggtc ttgaagttag tctgaccaac tatgcagctg cctactgcac tggccttctg 180
 ttggagagcc gtgtgctcaa gatactggtt ttggatcaag agtacgaggg caatgttgaa 240
 gccactggtg aggac 255

<210> 44360
 <211> 359
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-C3

<400> 44360

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ccagtcagaa ttgatggggc cctcaagggt ggacagaaac gtggaagatt gcatgcaaatt  180
ctagaagatg aacaacctaa aaagaagggt agattaggga gccagcggc tcaatggatt  240
tcagtttata atgctaggcg acccatgaag cagaggtacc attacaatgt ggctgactca  300
aggctaagtc aacatataga aaagggtaat gatgacaggc ttacgtag gtgtgtggg   359

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<210> 44361

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-C4

<400> 44361

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ggcgccaag aggctgctgc tggcggcgct gtgcgtggtg gcggcggcgc tgctcgccgt  180
gcggtcagag gccacggcc tggatgactt cgcaagcagc gacgcgacgc cggagatgca  240
gacc                                              244

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<210> 44362

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-C6

<400> 44362

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gcgcgcactg cgctcggaac cttcagaagt gcgaacattg cggagatatg gttgccaggg   60
ggcttatgga tgaacactac gatgaaaacc atgctccgat gaattgctca ctttgcaaac  120
acacagtaga gcgcgagcta tgggatcttc atacaggcat acaatgccca caaaggatgc  180

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ttgcgtgcc a tactgtcag tgtgaactgc ctgcagttga tctttttgaa catcaggatc 240
tgagtggaga tcggactgaa tattgtcaaa gttgcaggaa gtatatcaga ct 292

<210> 44363
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-C7

<400> 44363

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aatgatctac aggttgatcc tcaggatatt gtcattgcttg tcatatcatg gcacatgaaa 120
gccgccacaa tgtgtgaatt tactcgtcag gaattcattg gtggactgca gtcaattggg 180
gtagattcaa tcgagaagtt tcgtggaaaa ttaccatcat tacgagctga gctaaaagat 240
gacagtaa at tccgtgat at atacaacttt gcattcactt gggcaaagga aaagggtcaa 300
aagtctctct cactggagac tgctattgga atgtggcagt tgctatttgc tgaaaggaac 360
tggcctcttc tggatcattg gtgtcagttt ttacagggca tggacagtaa aaccatatct 420
agagaca 427

<210> 44364
<211> 331
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-002-Q1-K1-D5

<400> 44364

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cctcagctgg ccaagcactt tacagatttc cagtagagac agctcctggc gaaattcgca 120
tgatgctttc cagtcatgtt tactcattta aaagtgtttc aatggctgat cttctatctg 180
caccttccca agtgaatggt gatgtggcat taggtggcca aganaaactc ttggccacca 240
acactggcac tgaagtcacc aaggatgcgg atgctggact tgaatatgga aaagtatctt 300
ccactgaact gggacaagca gtccatgata t 331

<210> 44365
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-H8

<400> 44365

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atggagaaaa atatgattgc tgtggctagt gagattgaga ggcttcgagg agagcttgca 120
aatgctgaaa aagggggccac tgctgtcaac ccagcagcag ctgttggtta ctctgggtat 180
gctgcgcctt atggcaattc tgcgtcaaca tatactggaa tgtatggcaa tcctgatgca 240
acgtataccg cgcaggctta tcctgacgct tatagcacta atcagggtca catgcacacc 300
gtcgccaatc cgcattacat gagtcaacct gttccctatg gacaatacga gagccagcac 360
accaatgttc aaagatgact ggctgcaaga gatagctttg actcgctgc catctcattg 420
taacaagata gtcgcagaat ccacccatgt ac 452

<210> 44366
<211> 148
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-D8

<400> 44366

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tacttaacca cccacatcaa ctctctgc 148

<210> 44367
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-E1

<400> 44367

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cctccaccta ctttcaagaa gaagaggccg gagaagctat agtccgtgaa gaaatcaagc 180
 ggaggggctg cgggtgtatga ggggccggcg gaggagagag agggccgggg gaagtgaacg 240
 aaagctagag agagatgcat gatggagcat gatgatggct ggggtgat 287

<210> 44368
 <211> 153
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-002-Q1-K1-E2

<400> 44368

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 tgcggggccc aaactcctcg ggcctcggc cgacatgatt gcctcacacg ctatcaagag 120
 tcgcctccac ctacttccaa gaggaagagg ccg 153

<210> 44369
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-F5

<400> 44369

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 aagttcatga ccaaccgtct cctggcccgt aagcaattcg tgcttgaggt gatccacccc 180
 ggccgcgcca acgtctccaa ggcggatttg aaggagaggc ttgccaaggc gtacgaggtg 240
 aaggacccca acaccatctt tgtcttcaag ttccgaaccc actttggatg aggaaagtcc 300
 actggttacg gcctcaacta ctaacaacct cgaagctgcc aataagttcg agctcgaaat 360
 acctgcttat caggaatgga ctagctacta 390

<210> 44370
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-F6

<400> 44370

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ggagaaacaa gcaaaaaaac acatgcatgc tcacaataat aggggggtcgt gtagcggttac 120

ttaacgttgt ttctctgacc gtccttgtag ggggtcctaa ctggaaatac cctgccggtt 180

cctttctaag tggcgttgtt gaacatcgtg gtgtctccaa atgccatggt cttgcagagg 240

ttagccccct tggaccttat catcatttgc acagtgtgca tggcgattgg gacgccccct 300

gggacggccc tttgaacgtg taggggggtcc tgcctttgaa cagggttttc gcttcggttg 360

gcaaagctgt tgcgcccggg g 381

<210> 44371

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-F7

<400> 44371

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gactcctaag gcaccgtagg tagtcacccg ttcgcaccct caagttcatg accaaccagc 120

tgctggcccc aagcaatacg cgcttgagga gatccacccc ggccgcacca acgtctacaa 180

ggcggagttg aaggacaggc ttgccaaggc ctacgaggtg aaggaccaca acaccatctt 240

tgtctacaag ttccgcaccc acttc 265

<210> 44372

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-F8

<400> 44372

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ggagtgtgtg tcccggcgcc tgaaacaggc tttgcggccc cgggtgctgat cccttgccgc 120

tctgtataca aactgggtctg ctactacacg gagccgggtcc cagcaccgcg aaggcgatgg 180

ttgctgtatt ccagatgccc tcgaccggtg cctataaacc cacatcatct acagctgtgc 240

caatgtactc aacgaccaca atgactccta ggag

274

<210> 44373

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-G1

<400> 44373

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cctcgcctgg gccacggacg accactccct gcacaacgcc ttcagcacct acggcgaggt 180
cctcgagtcc aagatcattc tcgatcggga gacgcacagg tcccgcggct tcggcttcgt 240
caccttcttc acggaggaag cgatgccgaa cgccatcgag ggcataaacc gcaaggagct 300
g 301

<210> 44374

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-G3

<400> 44374

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ctgagactgt ggaacttcag attggtctga agaattatga tccacagaag gacaagcgtt 180
tcagtggctc tgtaagttg ccccatatcc ctctgccccaa gatgaaggtg tgcattgctt 240
gtgatgccca gcatgttgag gaggccgaga agatgggact tgactacatg gatgttgagg 300
ctctcaagaa aatgaacaag aacaagaagc ttgttaagag gcttgccaag aagtaccatg 360
ctttcttggc atcagaggcc atcatcaagc agattccccg tctccttggt cctgggtctca 420
acaag 425

<210> 44375

<211> 313

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-001-Q1-K1-G4
 <400> 44375
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 ccgtccggtt cctcaattcc cgaatccggt ttaaaccggg ccccttaagg atgaactccc 120
 gggcagttcc aaccagggtc gtcgtttgtt ccgtcgcgtt taccgagggg ttcatttccg 180
 aagcgccgat ctttcttccc gagggccctt ggaaacaggt ggaaggcggc gtccttgccg 240
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 acttggcact ggt 313

<210> 44376
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-001-Q1-K1-G5
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 cgcgacgagg tgttcgtgcc gaggaccaag gaggcgctgc cgtgggtacgc cccgtacgtg 240
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 ccctacggtc cgatctacgg cgaccgggag cgcgcccaga tcttcgtctc ggacgccggc 420
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<210> 44377
 <211> 449
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-001-Q1-K1-G6
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 tgttgccgtt tagttcaaaa atgaacaagc aggcgacaaa tatttgagaa cggaggtagt 180
 atgttacaag acattgcaga cataaggat tttaaaagac gtgttaacca agccaagcaa 240
 gtgacagact tcttttaggc atgggaggct tctcaatgca atgagggaaa agacgggagg 300
 aagagatcta ctgaggctga cagtaacaag atttgccact ttatttctga ctttgcagag 360
 tttgtacaag cataaggatg ctttatgtca actcttattg tgtgaggatt ggaccagatc 420
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<210> 44378

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-G7

<400> 44378

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 agactgcgga acttcaaatt gtgctgaaga attatgatcc acagaaggac cagcgtttga 180
 gtggctctgg tcagttgccc catatccctc gtcccaagat gaaggtgcgc atgcttggtg 240
 atgcccaaca tggtgaggac gccgacaaca tgggacttga ctacatggat gttcaggctg 300
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<210> 44379

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-001-Q1-K1-G8

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tggattatgc gaggacaagg ttggccaatg atgccaaggc tgccaaggga ggaggcgata 180
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 ggctttaccg tggatttaac atatcttgat ttggaattat tggttatcgt ggctgtatt 300
 tcggacttta cgattctatc aagccagttg tctcactgg cagcctncag gacaacttct 360
 ttgccaagtt tgctcttggt tggctgatca ccaacgggtg tgggtctgca tcttacccca 420
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<210> 44380

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-H3

<400> 44380

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 gatttgacca tgtgcgcac ccaagggatc aaatgttgat gaggctttca caagttacaa 180
 gggaggggaa atatgttcac tcaaagtgc ccaagcagct gttgtatggg acaatgggtt 240
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 ctgtacgata cagcgcagtc agaaagcagt ttggctctca agatgggtggc cctgagactc 360
 aggtccttaa ttacaagact caacagagca gactctttcc attgctgggt tcagcatatg 420
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<210> 44381

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-H5

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 gttcactcgt ttagtttgca gagcagattg gttcgaatga tactggaacg attacttggt 180

gcctcaattt gactctgtcc cgtaaaaaaa agattctcct agctgttaag gaaggatcgg 240
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 tccacagttg cagatagata atggcgacga aataaatgct aattggaaac tgttggttta 360
 aaaaatgaaa cacagcccat agacttaatt cagaagaagt tagcagatca tttgatacaa 420
 acttgaatac ttagtcctta gatgtcttat ttttaagag 458

<210> 44382
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-H6

<400> 44382

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 gttcactcgt ttagcttgca gagcctattg cttcgatcga tactggaacg attacttggc 180
 gcctcaattt gactctgtcc cgtacaaaaa agattctcct agctgttaag gaacgatcgg 240
 atttggcacc caccaccag cacacataat attgggagtg accataaaca gctaggaata 300
 tccacagttg cagatagata atggcgacga aataaatgct tattggaaac tggtggttta 360
 aaaaatgaaa cacagcccat agacttaatt cagacgaggt tagcagatca tttgatacaa 420
 acttggatac ttaatcccta tatgt 445

<210> 44383
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-H7

<400> 44383

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 cttatgagac catgtgcaca ttccatgaca tctagtttcg atgaagactt gatagattac 180
 aagggatgtg aatgatggtc agtcaaatga gccaaagaag cttctgtctg gtacaatggg 240

ttactgatcg gcagtcaatt gttgtagatg actttaatgg ttagtaccga tctg 294

<210> 44384
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-F4

<400> 44384

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gcggtcagct gaaccatggc ggactccaag gccacctcgg cggtcacat ccgtaccgcg 120
aagttcatga ccaaccgect cctggcccgg aagcaaactt tgcttgacgt gatccacccc 180
tgccgagctt acgtctacta ggcagagttg taagaaacgc ttgacaaggc gtactaggtg 240
aatgaccctt gcaccatctt agtctataag ggccgcaccc act 283

<210> 44385
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-C6

<400> 44385

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caacaagcgc cgttctgcga ggctctcggc agcggataac ttaacctgtc gcgcaaggat 180
cgggggagag aaaccagcgg caacttacgt ggatcggggg tgtttggtgc tgctgcggcg 240
gcgcagggat ggaccggaag cgcacaaagg acgcgctcga gaagcacctg gagaggtcgt 300
cgccgtctac ttccaggggc gtcgtgtcca aggagaggga gcgcctcgct gccgggaagc 360
tgccgtcatc gcttggaag gcggaagtgt ctgatggtga agaatttgaa actgacagtg 420
aagattctga tgtgagt 437

<210> 44386
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-C7

<400> 44386

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cgtgggaatg ttttttttgt tgttgtcttg tgttcgatgg caacacccag gtcgtgaagg 120
caatcgagaa cgcgatcccc gtgcggcaag cgctgccgcg gcccgccgc gcggagatcg 180
accccgctg ggaggaggag ctgagggcca tggaggcgga gaaggcggag atcgaccggg 240
cggcggcggc gcgggtgcgg cgggagctgt ggtgcgggct gacgtacctg gtgatccaga 300
cggccgggtt catgcggctc accttctggg agctgtcgtg ggacgtgatg gagcccatct 360
gtttctacgt cacgtccatg tacttcatgg cgggctacgc cttcttcctc cgcaccaaga 420
aggagccgtc gttcgaaggc ttcttcgaga gc 452

<210> 44387

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-D1

<400> 44387

cccacgcgtc cgtctagatc gcgagcatgc ctcaaaaaaa aaaaaaatct aaaaccaaag 60
cgcgaaaata aaaataaagg gaggagaaca caatagatct atatccacaa cgtatgctaa 120
ccagcgattt gcatgacgct agctccagat g 151

<210> 44388

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-D2

<400> 44388

tgtcgtctt cgtgcgggcg tgcggcacac caccagaaga gcggccgagc ggcgcagaga 60
agagagaacc agccgagcgg agcggctgcg ctttcggagg gaggaaggag gatggagaag 120
gctctacca agctcggcag cttcacaatc tcccgcaagg ccaagcagga gctctccgcc 180
atcggtgacg acatctcccg tttttcgagc acggtggagg agaaggcaaa atgggtgttc 240

gagaaactca aagggcacaa gaagtcgctc cctgatctac tgcgcgagca caaccttcct 300
ccaggtctct tccctcgtaa catcatctgc tacgagtacg acgaatcgac ctcgaagctg 360
gtggtgcacc tgtccaagcc ctgcgaggtg agct 394

<210> 44389
<211> 289
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-001-Q1-K1-D3

<400> 44389
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cactaaaccc gnetnctcgc ctccacccc gctccctgtc catccaccca tcgcctcgcc 120
gncgctctgc tgccgtttgc tccagctgcg gccgaccggg gccatggctg gcatcgacct 180
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tggccgtggc gccgtgtgcc tggagctgtg gcacgcgtgc gcggggcccc 289

<210> 44390
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-D4

<400> 44390
cggacgcgtg ggcggacgcg tgagtctaga agctactgac agccactaat ctgctcaagc 60
gctgagagat gtgtccgtga gagcttaatg aatcg cattg catggaaaca tggacatagc 120
ctccgctcta gatccgctgg ctccacttgc ggacgaccat acccacggct gcgatatacc 180
tcagcaccgt agatgaggag gacaaggagg aggcagaggc gctgcctttg cccggacccg 240
gtggccgtgg cgccgtgtgc ctggagctgt ggcacgcgtg cgcgggcccc gtcccgcgcg 300
ttgcgcggaa aggcagcgcc gtcgtgtacc tgccgcaagg ccaactcgag cacatcggcg 360
gcgacgcggc gcgag 375

<210> 44391
<211> 443

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-001-Q1-K1-D5

 <400> 44391

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 aagatgtaat ggcaatattg atctaataaa tgtgctaaga gagtttgaat caaacacagga 120
 ggcacatggt gaccaaattt tgatcaaggc ctcagtcctg gctgagttac agaggcggat 180
 actaaaagcc gaggccacag tacgtgaaaa ggatgaagag aacgagatgc ttcacacagc 240
 gcttcagcaa tatgaaaacc gctgggttaga gtacgaacag aaaatgaaag ctatggagga 300
 aatgtggcag aagcaaatgc gttcgctgca atcgagcctt tccgtagcaa agaagagcct 360
 tgttttggat gaaacgccta ggatgtcgga ctcacacagc gatcagagct gggaaagcaa 420
 tgggaaccac catgtcagca gcg 443

<210> 44392
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-001-Q1-K1-D6

 <400> 44392

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 caggattgtc aatgctggtg gggagtgcct cacatttgac cagcttgctc tccgtgctcc 120
 acttggcgag aacacagtcc tcttgagggg cccaagaat gccctgagg cggtgaggca 180
 cttcggcaag gtcctggag tgccgcacag ccacaccaag ccatatgtgc gctccaaggg 240
 aaggaagttc gagaaggctc gtggcaggag gaacagccgt gggttcaagg tttaagaaag 300
 ttgtgggcca tcagcatagt aatcacttcc taccgagtag tagcacattt tgttgccttg 360
 gcttggtattt tgaagatat ttaaggattt tcgtgccttg tctactggtt actggttgag 420
 caagaagaca atgttctttt gcacct 446

<210> 44393
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-D7

<400> 44393

ccgacgcgtg ggtgtcgccg gactccagc tacacctccc acccactcct ctcaccgcag 60
gactaaaccc gcctccctcg ctctcaccc gctccctgtc catccacca tcgcctcgcc 120
gccgctctgc tgccgcttgc tccagctgcg gccgaccggg gccatggctg gcacgcacct 180
caacaccgtg gaggaggagg acgaggagga ggcggaggcg ctgcctttgc ccggacccgg 240
tgcccggtggc gccgtgtgcc tggagct 267

<210> 44394

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-E1

<400> 44394

cggacgcgtg ggttaaaatg ttaaagaga ttggaagcat ggaaaatatt ccagatttca 60
ttgtaggagt gaagaacagg aagaggaaga tgtccggttt tgggcaccgt gtgtataaaa 120
actatgacct tcgtgctaaa gtcataagga aattggcaga tgaggtgttc tcaattgttg 180
gacgggatcc acttattgag gtggccattg ccctagaaaa ggcagcgctg tcagacgaat 240
atatttatcaa gaggaagctg tatccaaatg tggatttcta ctctgggcta atttataggg 300
caatgggatt ccctacagaa ttttttcttg tgctgattgc ttttctcgc atgggtggct 360
ggctagcgca ttggaaagag tcaactgatg atcctgacac taagattata agggcccaac 420
aggtatacac cggcttcttg gctaagcact atacccc 458

<210> 44395

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-E2

<400> 44395

cggacgcgtg ggttaaaatg ttaaagaga ttggaagcat ggaaaatatt ccagatttga 60
gggtatgagt gaagaacagg aagaggaaga tgtccggttt tgggcaccgt gtgtataaaa 120

actatgaccc tcgtgctaaa gtcataagga aattggcaga tgaggtgttc tcaattgttg 180
gacgggatcc acttattgag gtggccattg ccctataaaa ggcagcgtg tcagacgaat 240
attttatcaa gaggaagctg tatttaaagtg tggatttcta ctctgggtta attgataggg 300
caatgggatt ccctacagaa tttttttctg tgctgattgc tatttc 346

<210> 44396
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-E3

<400> 44396

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tgggacctag tgttcctgga gttggtcagc agctgtttta tggtcagcca ccttcagcct 120
tcatcaaccc ttaggctgga tttgctttcc agcaacctat gatgcctggg atgaggcctg 180
gtggtccaat gccgaacttt atgatgccta tggttcagca gggacagcaa ccgcaacgtc 240
ctgctggtag gcgtgctggg tctgggtgaa tgcattcatcc catgccaatg ggtagtcagc 300
aacagatatt ccctagaggt ggtcgtgggt accgctttgc tactggacgt ggaatgcctg 360
atcctggcat gcataat 377

<210> 44397
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-E4

<400> 44397

gcctgaagct gtgcgccccg gttcgggtggg cgttaaatgg gagaaaagag ggcgcgaagg 60
ggggttgatt ttgctagggt atgcggaatc tgcttcacac tgctactca gtctcacca 120
ccacagtcgt cgcgcgcaag atggtaggga ggatgccacg ttagatcacc ttgggtcaagg 180
agggggagcc t 191

<210> 44398
<211> 427

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-001-Q1-K1-E7

 <400> 44398

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 cgacgttggtg gacccgccgc tgcctccagt taaagctgtg atcaccgccg acgcgccggc 120
 gccagaggcg gctgacaata cctcctcggc gtccagctcc aacgcgggga atggcctctt 180
 gtgggctgcc atcgttgccc tcttgccct gagctttctg cgctgatcct tcctcgatga 240
 tggcttccat tgtactcccg catgtccccc tccccctac atcctcgaat gtgctgtaac 300
 ataatgttcc ttaaatagat ataacctgtc attaacctgc acataaatac aggtcagaaa 360
 aagtttacct tgcacaaaaa aaaaaaatta aaaataaatt tttattaaat ttataatttt 420
 taataat 427

<210> 44399
 <211> 292
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-001-Q1-K1-E8

 <400> 44399

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 gaaatgataa cgccaaaatc ttcgactaag gtcccaggta gaaccaaagg gcaaaacaca 120
 gagaatagca cacctaaaat gaagcaagaa caagaaactg aagagcctcc tcgttcaaag 180
 aaaagcaaag gacttgataa aagtctagtt ggtgcaagga tcaaagtttg gtggccagat 240
 gataagatgt tctacaatgg ggttgaggag tcatttgaat ctggttctaa aa 292

<210> 44400
 <211> 297
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-001-Q1-K1-F2

 <400> 44400

cttccctccc tccctctccc cgcgggccgc cagaggcaat ttcgccctcg attcgacccc 60
gattcgctcg cccgcgaccg ggattccctc cgccaagcgc ggatctgaac gctgcgctcc 120
gtgtcgctcg tcgaatccgc catgaagggg gccaaatcca agggcgccgc caaggccgat 180
gccaaagctgg ctgtgaaaag caatggggcg tgcaagcccg ccaagggcag gaaggggaag 240
gcccgcgaag accccaacaa gcctaagaag gctcccagcg ctttcttcgg gttcatg 297

<210> 44401
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-C5

<400> 44401

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caggattgtc aatgctggtg gggagtgcct cacatttgac cagcttgctc tccgtgctcc 120
acttggcgag aacacagtcc tcttgagggg cccaagaat gcccgtaggg cggtgaggca 180
cttcggcaag gtccttgtag tgccgcacag ccacaccaag ccatatgtgc gctccaaggg 240
aaggaagttc gagaaggctc gtggcaggag gaacagccgt gggttcaagg ttaagaaag 300
ttgtgggcca tcagcatagt aatcacttcc taccgagtag tagcacattt tggtgccttg 360
gcttggaattt tgaaagatat ttaaggattt tcgtgccttg tctactgggt actgggtgag 420
caagaagaca atgttctttt gcacctt 447

<210> 44402
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-A1

<400> 44402

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tcacacggag gaggagctgt gccaaagccac aatgggtatc tcgcgtgact cgatgcacaa 120
gcgccggggc accggtggaa agcaaaatgc ctggatgaag aaacgaaagt atgagcttgg 180
tcggcagcca gtcaacacca agttgtcaaa cactatgaca gcgacgaggg tacctgttcg 240

tggaggtaat gtgaaatgga gggctctttt ccttgggtact ggtaactact cattgggaag 300
tgaacc 306

<210> 44403
<211> 315
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-001-Q1-K1-A2

<400> 44403

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cttggtttat tgcacaagcc taaccccgga cttgttctnt tacaggacat ggggtacagc 120
gctcgggtatt gctcactctt gttacctagc tgcagcaact ggaggccgctc gcttttataa 180
ggagctgcag aagaagtggc acaaactggt ataccatctg gacctctgct tgagacacca 240
gcgctggatc gatgcatacc aaccaacttc aggagcttgc attatacgag ctgctttaat 300
ctgccgtcct attac 315

<210> 44404
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-A3

<400> 44404

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cttgtcccat tggagatgac tcggcatggt tctatgatat caattacttt gtccccaga 120
gagctggaca agcacactcc tgggtaccaa gctccagcat atgttgaaca tcccaggcaa 180
cagcaggtgc caccactgca gcgccaacct cgcagaccat caggacaaca attccagcta 240
ggcgtgttgg atctactcgc gccggcccac tgctccttca gtcaggcgcg gcgcctcttc 300
tccttcggcc aggcgagttc gcgcttcttc tccttcagcc aggtgcgttg aatctgctcg 360
acgccgcca ctgctccttc agccaggcac ggcgcccttt tctccttctg ccaagtgagg 420
tcgcgcgccc ct 432

<210> 44405
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-001-Q1-K1-A4

 <400> 44405

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 gatggcacat aaggcaggcc tgaagctggg tgtataaaat ccagtacagg aggagcccga 120
 gacctagaca gccgcaatgg ctccctaccga gatgaagcct atggccgaca tgcgcctccc 180
 gacgggcaag tcccactgta ggacggccgt cagagccata aggggaacaa gaaagcgatt 240
 gaacgtcgtg gagacactcg agatctacaa ctgctacgtg ctgcagcagc ggcacctcta 300
 catctgcac tagtccaagg ccatgttcat tcatgaac 338

<210> 44406
 <211> 233
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-001-Q1-K1-A5

 <400> 44406

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 cacaagagaa gacacggcaa gcaaccaaga aaacaaaaac cagaccccc aaagagcagg 120
 acaagcacac tcccgggaac caagcaccaa cataaggaga acaaccaag caacaacagg 180
 agccaccact gcaacgcaa cccacagac caacaggaca acaagaccaa cca 233

<210> 44407
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-001-Q1-K1-A6

 <400> 44407

 agcggtcgaa ataaatgaaa aatctgatga taaatatgac agagatccta cggaaaagtt 60
 agatcggagt gaaaggcgtc gtggcgaaga tgccattgac agatcaacag atagattgtc 120

ggacaggaga gaacgttcca ttgaaaggat gcatgagaga ggtacagata aagccctcgt 180
 aaaaggttgc gaggatagaa ataacgatga gaggaataaa gttaaatatg cttgaacctt 240
 cgggtggaccg gacacattct tttgatgacc gattcctagg gcaaagtttg ccaccggcca 300
 ccaactattc ccgcaagttt cgtacccca 329

<210> 44408
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-A8

<400> 44408

cccacgcgtc cgcccacgcg tccggcctgg agggctgata ttcatgacat gttatctaata 60
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 atctcatgga gacaaacttt gatagtacaa gttggaggtc tcgaatttta aggtaatat 180
 gtgctagtat tgtcatttgc agtattgac tttgttggtg caacctaaca ttagattgat 240
 gttaatgagc tgctgtagac gtttgattta atctgcatgt gctatttttg tggagtttga 300
 tatttatgtg cttacatttc gtgacttagc aataccggtt gtatgctgag atgtttgaaa 360
 agctattacg ttttctgtga acagtttgtt agtttttagt tggatgacgt cgtgcatgcc 420
 gtggaaagtg tgggtgtggc ttttggtgga aa 452

<210> 44409
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-B2

<400> 44409

actgccgtac cgctgcggca taattggctg gacgaacgcc tcctgcgac tctgcttccc 60
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 aaggagtggc ttattggatc catccctca cgtgctttcc tcatcaagtt tcaaattccc 180
 atctgcgca ggaactcctc tctcaatatg gttgcaccga ggaattcatc ccttattgaa 240
 gaaggtagta gatctgaaga actccatggg tagctggagc gtcct 285

<210> 44410
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-B3

<400> 44410

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gtgaccagag cgagagctag ctagagggcc gtgaaaatgc cgatcaatag gatcgccctg 120
gggagccacc aggaggtgta ccacccgggc gccctcaagg cggcgttcgc tgagttcatc 180
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ctgttcgtgg cgggtgtcggg gggcgcgaa atcttcggcg ggcacgtgaa cccggccgtg 360
accttcggcg cctttgtggg cggcaacatc acctgttcc gggggctcct gtactgggtg 420
gcgc 424

<210> 44411
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-B5

<400> 44411

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gcttggactg agcttttgaa tgctttttgc acgagtggca gactcgaact ggaacttata 120
caciaagttc agacacagtg ctatgaggat gctaagctga tgaagctgtt tccggaaatc 180
ataagaacac tgtatgacca agatgtccta gctgaagata ctatagtcct ttggttccgt 240
aaaggttcaa acccgaaggc caggcaatct tttgtgaaag ctctggagcc gtttgtcaaa 300
tggctcgagg aggctgagga ggaagaataa gctcttgatt tggagattgg ccgaatgtga 360
cgaattatgg ttctcgaaaa tattaccttt tcttatttcg aaagctatga aagggtgacg 420
agttat 426

<210> 44412

<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-B6

<400> 44412

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tgtgttgggg atcaaggagt ggttgattgg atccatcccc tcacgtgctt cctcatcaa 120
gtttcaaata cccatctgcg cgaggaaact ctctctcaag atggttgcac ggaggaatcc 180
atccattatt gaagaaggta gtagatctga agaaatccag gtggagctgg agcgtcctcg 240
ccgtccccag accggtcatg gtagaggcca agctcgggga gatgttggtg ggagtagttc 300
tcaacaacct gaaatcgtcc atgccgctcg agaagaacct gtccctcagc cacctctcca 360
tccatcttca tcacgggctg ctgcagctgc cgctctcgc cccatgagcc gtggtaagag 420
aagcaagaag agaggtgttc gtgcgctcat c 451

<210> 44413
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-B7

<400> 44413

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acattgtttg aactcacatt tgcattcaatt attcagtggc ttctttctg gccttcaatg 120
aaattgatct ttatttgctg gcttgtcttg ccatacttca atggcgcagc ctatgtgtac 180
cagaattatg tgagacctgc cttcataaag aaccagatgg tcaacatttg gtatgtccct 240
cagaaaaaag gccttcttgg gaaatctgat gacttcttca cagcacttga taagttcatt 300
gaagaaaatg ggactgacgc gctgaagaaa ttggcgaaca aggctggcaa gccatttaaa 360
cagtctggga aatcatctaa ggatcagaaa gagacaaaat catcaaagga ttccaaagaa 420
ccgaagccat caaaagatgc aaagc 445

<210> 44414
<211> 188
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-B8

<400> 44414

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catttgtggg atctaacagg aggggtctagt gtacagtaag gtctgtagat gcctgctggg 120
ccgagtatga cgactaatat tgtgaagcga ccgtatgtct attgctctat ctgtgtgtac 180
tgatatga 188

<210> 44415

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-C2

<400> 44415

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gtgagatggg gcttagcttc aatatgtgca agaagattgt gcagatgatg aacggcaaca 120
tttggtcagt atcagattct aaaagcgttg gagaaaccat catgctggtc ctccagttcc 180
agctgcagcc tctgactgcg gtctccttcg cggcgtcctc agacttgagc cgatcgtctg 240
caatcccaaa cttcaacggg ctcaaagtcc tcttggcgga cagtgcgcac acaaacagag 300
cagtaacaca caggctcctc gagaagctcg gttgccgggt cctttcggtc gccttcggcg 360
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<210> 44416

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-001-Q1-K1-C3

<400> 44416

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gggattatgc caagcttata tctatgttcg atggtatgat tgaaacacct gcgttttagac 120
caggcagaat tgatggtgcc ctcaagggtg gacagaaacg tggaagattg catgcaaata 180

tacaagatga acaacctata aagaacgtta gattatggag cccatcggct caatggattt 240
cagtttataa tgctaggcga cccatgaagc agaggtacca ttacaatgtg gctgactcaa 300
ggctaagtca acatatagaa aagggtcatg atgactggct ttaccttagt tgcgtggcct 360
tctcggaaac cttttgggcc tcatcatgga cgctggaact ggtttctgtc ttcaagttac 420
gagctctcac caggtttttt t 441

<210> 44417
<211> 357
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-001-Q1-K1-C4

<400> 44417

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agggcgcggc gagggcgggg acagggtcgg gaaggccctg ggcgcggggg cgccaagcgc 120
atggcatcgt cgaggggtgat gccgtcctcc tcgccgtcgc aacgggctc tgatctcgcg 180
cgcctagcgc aggccgncag caggccccggc ggcgggggca gcgggctggg ctccatgaac 240
gtggaggagc tcttcgcgg catctacagc gacatgccc ccccgggcgc tgccgcgtcg 300
gagcccgaac gcccgaggtc gccggccccg gcgccggagg tcgccacgcg gaggacg 357

<210> 44418
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-G9

<400> 44418

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agataagggtg taatcacttt ttgctctata cacggaggac t 101

<210> 44419
<211> 106
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-H10

<400> 44419
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 gccacaggac acatgttctc tatatgcatg tctggaagct tttatt 106

<210> 44420
 <211> 230
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-055-Q1-K1-H12

<400> 44420
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 gnnagagacgc gcaaggaaca ggagcgtaag gaggaggtgg angcnnaagc gngggagagg 120
 aaaacccaag agccgccgca gcaaggccag ggcctcagcc tctcactcgc caacggcagt 180
 ggcaggtctg gaatgttggc gatgtcaaac atgtcagcta atccttcaca 230

<210> 44421
 <211> 210
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-H3

<400> 44421
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 gagaaccgcc gtgccctccg tgagctccta ttctgctgcc ctgggtgctct ccagtacatc 180
 agcgggtgtga tcctcttcga ggagaccctg 210

<210> 44422
 <211> 132
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-H5

<400> 44422

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 cgatcgaatc cgtgaaggcg cgccagatct ttgacagccg cggcaaccct acaatcgagg 120
 tcgacgtggtt tt 132

<210> 44423
 <211> 165
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-H6

<400> 44423

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 cgccgccgca tgagccatga gccatggcgc tggccgctcg cctcgtctca cgctcccgtc 120
 agctacattc ggttcaagca gcttttgca atggaggtgt cactc 165

<210> 44424
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-H7

<400> 44424

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 cgattcaag gtaatcgtga gtattcatgt aagcttaagt tcaaggagca gtcaattatc 120
 gatcgcaacc ctaccaggt gcaagggtgtt gttcaagata gaaatggtcg aactgttgct 180
 acactatttg gaaaatggga tgaaagcatg cactatgtaa tgggtgattg ctttgggaaa 240
 ggcaagggaa ctgaacagtt atcggaagcc catttggtgt ggaaaagaag caaaccacct 300
 aagtttccca ctagatacaa tctactcaa tttgcaatta catcgaatga acttaccct 360
 ggattgaagg agaaactgcc acctacagac tcaagatta 399

<210> 44425
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-G7

<400> 44425

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cgatccaaaa acgcggagag gtggaacttt gtttgccagc atacactaat gaaggtagaa 120

taccagaatc atgatgaatc taagccacca accaaatctc atttgtttca tgatgagaca 180

ctaccatctt tcttccgaag gttggcatgg tcacctgatg gatcttttct agtattgcca 240

gcaggccttt ctaaactctc ctccgaggtg attaatacag cttatgtaat gtccaggcgt 300

gacctctcaa ggtctgcgat acaacttcct gtggcaagta aagctatagt ggtagtacgc 360

ttctgtcctg tactattcaa aacacgt 387

<210> 44426

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-055-Q1-K1-E4

<400> 44426

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gtcgttccac tggcccaccg agacaaagcg cgccaatctc aaagggctgc catggnattg 120

gtggtgctgc gggtnggact tgttattcct cctgatgatn cttagtnagc tgtatgcang 180

gccacanncc atccacctgc ttttaaaaga tgccactgta agcccaagcc agtgagcaat 240

ggtcccaccc annagctggt gatccttcat atgaacccat ggctcttcat gtctnttgat 300

gaatataatg aggatganct gagaacttga gttgagaaat accatcattg gataccgggg 360

catcaaagta caagtttatt aaatgtgttc taaaagaatt tgcaaaccag tggcaataaa 420

aaaagctgta tgcccacta 439

<210> 44427

<211> 200

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-055-Q1-K1-E5

<400> 44427

agactgcaaa attgtacaag gagaattgta taaatttgct ttatcaggat ccactcntan 60
catgcgattg caaaatttaa accttaaaga cttcatcttt taaagttctt aaatactact 120
cacttaatat ttctactgta ttttaatcat caatattacc tctgaaaatt gtatgcaatt 180
tacctgtagt taactacata 200

<210> 44428
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-E6

<400> 44428

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agatggttat taatatgagt atgacaatct aaaactgaac tgttggtata cctatccttt 120
cagaattcag ggccggcaca atgtgctacc ggctggtcac tgtggctccg caggaggga 180
tgatggaggg aatcccttgt ggggtttgcc ccaagattca tgaagtctct c 231

<210> 44429
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-E9

<400> 44429

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aaaggaataa tatttccagt ctccaggaaa aaaatgacga aatcgttgct cgtttgaatt 120
tactggatcg tgaaattata aatgatgact caagattcac atctgaagct gcacaaatga 180
aagatgagtt ggagaaaaag aagaatagtt tgatttctgc tgaaaagcag gcagatgatt 240
ttcttaagaa atcggagaag aggctccaag atgtaacact taaagttgaa gaagaaactc 300
aggcagctgc taaggagctg ctggagcttc ttgattccat ggctgaacat aaagagttca 360
tggaacaac aattgctc 378

<210> 44430
<211> 245
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-F10

<400> 44430

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atctggttgt ttgtatgtat ggacaagaca aaactagcac tgcagatggt atggttaaggc 180

gtaagcaaata acaatatgac attggtccag ttccaggaat gaatggaata tgacattggt 240

ccgag 245

<210> 44431

<211> 306

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-055-Q1-K1-F11

<400> 44431

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tgcaacaagg aggtggtggt tttaggatcc ttgtcctact gtgttgngta aaccaccggg 120

tgtagttagc tgtatctggt tgtttgtatg tatggacaag acaaaaactag cactgcagat 180

ggtatggtaa ggcgtaagca aatacaatat gacattgggtc cagttccagg aatgaatgga 240

atatgacatt ggtccgagaa aaatatatat atttattatt aaatttttat ttttaatttt 300

tttttt 306

<210> 44432

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-F12

<400> 44432

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gctttatcat tttctccttg gcggttcttt atgttgtctc aagacgtatt ggtctattga 120

cgctgcaaag gaaactggcc gatgccatca gatccgggtc attatcagcc gatgacatcg 180

tagcgaatgc ccaacgtgga cctgccccag caaatgttcc tgctcccatc tacgatgaac 240
 tgtgattcgt ttgtcctctg tattgttaag gttagttttg catgtggcta ttgggattttt 300
 gtccagtgtg tgggtggcat gtaccgatct gcgattcatt aaaataattt caaatgaaaa 360
 atagttaact 370

<210> 44433
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-F4

<400> 44433

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 ctttatgata cactcaccat caccgaagct gttattttct gcaataactaa gagaaagggtg 120
 gattgggtca ctgaaaaaat gcgtacaaat aacttcaccg tatcagctat gcacgggtgac 180
 atgccccaac aagaaaggga tgccattatg ggtgagttca ggtctggcgc aactcgtgtg 240
 ctaataacta cagatgtttg ggctcgagga ctggacgttc agcaggtttc acttgtcata 300
 aattatgatc tcccaaataa tcgtgagctt tacatccatc gcattgg 347

<210> 44434
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-F5

<400> 44434

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 gtcgacgact gcccgcgctt cccacgggc cgcgtcgtct gggagggtgcg cgtggacggt 120
 accgtcgcgc tcaagtggtc ccgcggcctg gtgctggccg tgacctcgtc gacgtctttc 180
 gcgggggtca cgggtgcggca ggacgaccgc ggcaccggcc agtcgtggac gccgaccaac 240
 gtcaccgcgc ccctggacgc cgccatcgtg gggttccgcg acctctgtct gcaggcggac 300
 tacgcggggg cggtatccgt cg 322

<210> 44435
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-055-Q1-K1-F6

 <400> 44435

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 ggcgccaagc gccaccgcaa ggtgctgctg gacaacatcc agggcatcac caagccggcg 120
 atccgcaggt tggcgaggag gggcggcgtc aagcgcatct ccgggctcat ctacgaggag 180
 acccgcggcg tgctcaagat cttcctcgag aacgtcatcc ggcacgccgt cacctacacc 240
 gagcacgccc gccgcaagac tgtgaccgcc atggacgttg tctacgctct caagcgccag 300
 ggccgcaccc tctacggttt cggcggttag gtcgcccctc tcccggtggc gaattacatg 360
 gtggcggtgg cggtcgtgtt 380

<210> 44436
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-055-Q1-K1-F7

 <400> 44436

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 agatccaaga acgcggagag gttgaacttt gtttgccagc atacactagt gaaggtagaa 120
 taccagaatc atgatgaatc taagccacca accaaatctc atttgtttca tgatgagaca 180
 ctaccatctt tcttccgaag gttggcatgg tcacctgatg gatcttttct agtattgcc 240
 gcaggccttt ctaaacactc ctccgaggtg attaatacag cttatgtaat gtccaggcgt 300
 gacctctcaa ggcctgcgat acaactccct ggggcaagta aagctatagt ggtagtacgc 360
 ttctgccctg tactattcaa accacgtggg tctaac 396

<210> 44437
 <211> 101
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-055-Q1-K1-F9

<400> 44437

cccacgcgtc cggctgtgtt gtgggttatg tgatactctc tectgcccac ctaataatat 60
atataagggtg taatcacttt ttgctctata cacggaggac t 101

<210> 44438

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-G1

<400> 44438

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ccgctgcccc tcagtcctca gttcctcacc tagcggtagc gtgcgcgcgg gagacgtaga 120
tggcggcttc ggaggcggca gcggcggcgg caacaccggt gacgccgaca gaggggacgg 180
tgatcgcgat ccacagcctg gaggagtgga gcatccagat cgaggaggcc aacagcgcca 240
agaagctggt ggtgattgac ttactgcaa catggtgtcc tccgtgccgc gccatggctc 300
caatTTTTgc tgatatggcc aagaagtcac caaatgttgt tttcctgaaa gttgatgtcg 360
atgaaatgaa gaccattgct gag 383

<210> 44439

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-055-Q1-K1-G10

<400> 44439

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tggtggTTTT aggatggcgt gtcctactgt gttgtgtaga ccaccgggtg tagttgactg 120
tatctggttg tttgtatgta tggacaagac aaaactagca ctgcagatgg tatggtaagg 180
cgtaagcaaa tacaatatga cattggtcca gttccaggaa tgaatggaat atgacattgg 240
tccgagaaaa aaaaatttaa tatttataat ttttttaata ataatttata atatttattt 300
aatttgTTTT ggggggtgtg ttttgnatt ttaattatta naattttttt gttttttttt 360

tttttaatta taatttttt

379

<210> 44440

<211> 408

<212> DNA

<213> Zea mays

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gccattgccca cccccaaagt gtaagcacia ccaacagcaa agaagagacg acgtcgatcg 120

atcgatctca gcaaccaagc aggtcgtagg taggcatggc ggccgagaaa gagggcgagg 180

tggtgaccaa agggccacgac taggggatga aagcggcggc ggcgctgctg gaagagtctg 240

ggctcccggc ggggctgctg ccgctggaag acgtgacgga ggtgggggtc gtgcccccca 300

ccggctactt ctggctcggc cagcgcaaga aagtggagca ccggttccgc aagatctgca 360

agcaggtgag ctacgacgtc cagatcgccg gatacgttcg ggccaggg 408

<210> 44441

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-G3

<400> 44441

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gtggcaagag ggttgtggtt agtaatttat tcgatcagca accaagctcc aatactggga 120

gcctgcaacg acaacgtgtg gcagacatgg aactggacgc ttcagctcct gagtaccga 180

ctagtgtgag aactgggaag aagctgtcct cccatgccgc agaggaagcg aagacatggc 240

accctgggct gaccggtagc cggcagttta tgcactgtct tctcaaggc gaggaggtgt 300

tctccgtgca ttctgcttgc cgaccctga gctacggtga tggaagcatg ccttgacca 360

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<210> 44442

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-G4

<400> 44442

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tcacgttcga tacacttttt gagggttatg agtacactca ccatcaccca agctcttatt  120
ttctgcaata ctaacagaaa cgtggattgg ctactgaaa aaatgcgtac aaataacttc  180
accgtatcat ctatgcaccg tgacatgcc caacaagaaa gggatgccat tatgggtgag  240
ttcaggtctg gcgcaactcg cgtgctaata actacacatg tttgggctct aggactggac  300
gttcagcaag tttcacttgt cataaaatat gatctcccaa ataatcgtga gctttacata  360
catcgcatcg gtcgttctgg gtcgtttggg c                               391

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<210> 44443

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-G5

<400> 44443

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gtttatgatt cactgagcgt gaccaagct cttattttct gcaatactca cataaacgtg  120
gcctggctca ctaaaaaaat gcgcacacat aacctcaccg tatcatctat gcacctttac  180
atgccgcatc aagaaagggg tgacaacatg ggtgacttca agtct                               225

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<210> 44444

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-E3

<400> 44444

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ggactgagct gaagatggca tagctattga aggaccagag ttcagagaga aaagcctagc  120
tgaactcctt gaactgggtc caaaaataca ggtaatggcc cgatcatcac cacttgacaa  180

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gcatacactt gtaaagcatt tgcgcacaac attcaatgat gttgttgctg ttactgggtga 240
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 tgggactgag gtggcaaaag agagcgctga tgttataatt ctggacgaca acttctccac 360
 gattgtaact tgtgccaaagt ggggacgac tgtttacatc aatattcaaa aagttgtgca 420
 gtttcagctg actgtcaat 439

<210> 44445
 <211> 236
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-055-Q1-K1-G6

<400> 44445

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 nctggaacat aagctgcacg tcgtggagcg caccgtccgc cagcttgttt gcggtgaggg 180
 gatcgccaat tgcagctcgc gagactccgt ctggcgattc caccagaatg atcagc 236

<210> 44446
 <211> 249
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-055-Q1-K1-C4

<400> 44446

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 gcgtggggga gaagctgccc aggggtcaatc ctgaacaagc taaactgggtg aagggtcgg 120
 cagactacat cggatatcaac gagtacacat tcagctacat taaggggcag aagctgggtcc 180
 agctggcagc ccagtagcta ctctgccgat aggcacgttc aatatgtatt tgcacgcaat 240
 ggcaaaccg 249

<210> 44447
 <211> 148
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-C5

<400> 44447

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tggtacaat gcgaattttc aggctaagc acactaaaag tttgaaacgg tgcacattta 120
ctacttcaag tttgatgggc tagaggat 148

<210> 44448

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-C6

<400> 44448

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cacaattatt tttatattat cgctcctata acgttttgag aatctgtggc taagttgtat 180
tgtaaagcta gttagtagca aaattgttta taaggctatt tgagctctta tatcttcata 240
cacatttaat ttttcgcagc ttgtgaacat tgggaagccc aattaaatat ttgaatctgc 300
atagagtatt ggaaatagtc aatactggcg aacttttgaa tgattcagat tttgagactc 360
ttgctaggag caatgtgtag cct 383

<210> 44449

<211> 415

<212> DNA

<213> Zea mays

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<400> 44449

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acatgtaatg gcagttcgag tctgactcca agttcgaagg aggctttgct aaagaacata 120
tcatcagga taacagacta cacaattggc tctttaatgt tttgcttgat ggcacagaag 180
tagcttacta tgttgatggg cagagaaagg ttgacgggta tattaaggat caaagaatct 240

actgtaatca ctgcaacaaa gtggtttagcc catcagcatt tgaagctcat gcgggtgagg 300
 gatcaaggcg caaaccgat gatatacatat tcacatcaaa cggagtatca ttgcatgagc 360
 tggcaatgaa aatatcaaag gatatggaac tgtcagaacg tgagactgat gatct 415

<210> 44450
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-C9

<400> 44450

ccccctctc acctcccaca ccaccccccc cctctcccc cccccacccc tccattcccc 60
 tccctcccca cccccccccc ctcccccccc tccacccata cccccccccc cattccccct 120
 cacaaccccc tcccatcaca ccccaccccc tccccccaca acccccctcc atccccctct 180
 ccateccctc tcaccccatc cccccccccc cctcccatcc cctctttctc cccccacct 240
 cccatccccc ccccttcccc tcatcacccc cccccctac ccccatcac ctccccact 300
 cctccccacc tccccccccc cccccccct ctccccctcc atccccaccc ctcccccc 358

<210> 44451
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-D10

<400> 44451

cccacgcgtc cggtttggtt cggcaactac aatgaacttc ttcagaacta tagattcacg 60
 tgcatgggga ctctaaaga ttttggaaga atcaaagatg gaacatcaaa agcaactctt 120
 ccagcttcag aagaagtttg aggccgttgt tgctgacgaa gagaagtact tgatggagaa 180
 ggttgagggg ttgtttgcag aatcaaacgc tcgaaagaaa aatatgggtc aagatgacat 240
 atgcagcctc aataggactg tttctgagcg ttcgaacaat ttacaaaccg aaactaccaa 300
 gctgcatgat ttacatctt ctatgaaaga gcaatgggaa ggctacatga agaaaactga 360
 agaggcattc cagcaaatg tatcatctat tgaacagaaa a 401

<210> 44452

<211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-055-Q1-K1-D11

 <400> 44452

 gtacgaagcc tgtttcgtca gtggtcgtct ctgtgctggc tgatcccaga gaggctggcg 60
 atgggggatgg tgaggggaagg atctcttcaa aatcattgtc ccgcatctta gttgtcgttc 120
 ttatagatag tgттаagtat gttacgtact cttgtgtcct gccgttcaaa agccatagcc 180
 ctcaccttta ggtctggggtt ttggacgtga gttgataaag ctgacctata cattttatag 240
 cagaagaggt gtaagacagc tgcctttgtt catttattca agttttgtgt gctca 295

<210> 44453
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-055-Q1-K1-D12

 <400> 44453

 cccacgcgtc cgcttccgtc cccaaatcga ccgagcgaat tcaccacagc ttctcaccac 60
 cgctaccttc gatggcacc aaggcggaca agaagccggc ggcgaagaag cctgcagagg 120
 aggagcccg c gacagagaag gcggagaagg ctccggcggg gaagaagccc aaggccgaga 180
 agcgctccc ggcgggcaag tccgccggt a aggagggcgg cgagggcaag aaggggaaaa 240
 agaaagcgaa gaagtccgtg gagacctaca agatctacat cttcaagggt ctgaagcaag 300
 tgcaccccga catcggcac tcgtccaagg ccatgtccat catgaactcc ttcacaaacg 360
 acatcttcga gaagctcgcg gccgagtcgg ncaagctggc gcgctat 407

<210> 44454
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-055-Q1-K1-D2

 <400> 44454

gcgctccgng agactggtca cagcagataa cataaattca gcttatgcaa ttgctcgaca 60
atgacgtgta ctggacaaag atcgcgtagg gaatagaagg accaaaacttc atagagaaaa 120
gcctagcgtg aactctattg aactgcttcc aaaactacag ggaatggccc catcataagc 180
acttgacgag catgcactta gtaagcattt gcgcacaaca ttcaatgatg ttgctgctga 240
tactggtgac ggaacaaatg atgcttccgc attgtataaa acatatattg aac 293

<210> 44455
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-D3

<400> 44455

gtgagaatgg tcacaggaga taacataaat acagcgaagg caattgctcg tgaatgtggt 60
atactgactg aagatggcat agctattgaa ggaccagagt tcagagagaa aagcctagct 120
gaactccttg aactgggtcc aaaaatacag gtaatggccc gatcatcacc acttgacaag 180
catacacttg taaagcattt gcgcacaaca ttcaatgatg ttgttgctgt tactggtgat 240
ggaacaaatg atgctcctgc attgcatgaa gcagatattg gacttgcaat gggcattgct 300
gggactgagg tggcaaaaga gagcgctgat gttataattc tggacgacaa cttctccacg 360
attgtaactg ttgccaagtg gggacgatct gtttacatca atattcaaaa gttgtgcagt 420
ttcagctgac tgtcaatgta gtg 443

<210> 44456
<211> 216
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-055-Q1-K1-D4

<400> 44456

acggtgacac ttgtcacatt acataaccta aattcacatt aggaccttgc taacaaatat 60
aggggtcgga ataaaaaac cgtagccact gcaanaccaa aactcacaaa caaaacacaa 120
gcttaacttc caatacaaga ttccataata catgtaatag ccctatcatt tacactatgt 180
aagcatacac atacaatata tttgtgcaca acattc 216

<210> 44457
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-D5

<400> 44457

gtggacagcg acagactgct gaatggtaca aggagaatgg tatagaggtg ctgtatgagg 60
atccagttgt agcatttgat ggcaaacgc aaaccttaaa gacttcacgc gggaaagttc 120
tgaaatacgg ctcaattatt atttctactg gatgtgaagc atcgagatta cctgagaaaa 180
ttggagggaa attacctgga gttcactaca tacgggatgt tgctgatgct gatgctctag 240
tatcctcatt gggaagtgc aagaagggtg tggttattgg tgggggctat attggcatgg 300
aagtagctgc agcagcttgt ggctggaatc ttgacacaac tattatattc ccagaggacc 360
acattatgcc aagattatth acaccctcgc ttgctaagaa gtat 404

<210> 44458
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-D6

<400> 44458

aaaaaaaaa aaaataaaaa aaaaaaaaaa taaaattta aaaaaaaaaa aaaaaaaaaa 60
aggagaagag aaaaattaaa aaataaagta ataaaaaat aaaaataaat aaaaataacg 120
cttttttttt tttaaaatta tttttttcat ttgtgtgatt taaaactttt ttttttttta 180
atataaaatt tattattttt tccgttcgtt taaaatttta tatctttata tataaaaaaa 240
tcatttcctt tcttatatth ttgcatact tgtttattac tcctatt 287

<210> 44459
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-D7

<400> 44459

gtgctctgtc aagtttgctt agagtcaaag taacctcaag accctcttac cacatcatat 60
 acatgtaatg gcagatcgag tctgactcca agttcgaagg aggctttgct aaagaacata 120
 tcatcaggga taacagacta cacacattgg tctttaatgt tttgcttgat ggcacagaag 180
 tagcttacta tgttgatggg cagagaaagg ttgacgggta tattaaggat caaagaatct 240
 actgtaatca ctgcaacaaa gtggtttagcc catcaacatt tgaagctcat gcgggtgagg 300
 gatcaaggcg caaacggtat gataacatat tcacatcaaa cggagtatca ttgcatgagc 360
 tggcaatgaa catatcaaaa gatatggaac t 391

<210> 44460
 <211> 225
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-D8

<400> 44460

ctgacacgtc cagtttgaca tagttactat taacaacttc accataacaa taaattcagg 60
 tgcattcata ctggtgcgga agccacaaca aatcaaaaag ttacatacat aacaactatt 120
 tcatctccag tacaagtttc cagacgttgt tctttactca tataattgct tgaataaaac 180
 acttacacta ctttttttca gtatcaaacg ctctaaatga tatat 225

<210> 44461
 <211> 271
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-055-Q1-K1-E10

<400> 44461

gcgtacgccc acgccttcng tttgtttccg caactacttt taacttcttc agaactatat 60
 attcacatgt cattgttact cctaaagatt ttggaaaaat caaagattga aactaaaag 120
 caactcttcc agctttaaaa gaagtttttag gccgttggtg ctgacaaaaa gaagtacttt 180
 attggaaaat gttgcaagggt tgttttcaaa atcaaacgct cgaaagaaaa aaatggttca 240
 agaatacata tgcagcctta ataggactgt t 271

<210> 44462
<211> 293
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-055-Q1-K1-E11

<400> 44462

gtacgaagcc tgtttcgtca gtggtcgtct ctgtgctggc tgatccana gaggtggcg 60
atggggatgg tgagggaagg atctcttcaa aatcattgtc ccgcatctta gttgtcgttc 120
ttatagatag tgtaagtat gttacgtact cttgtgtcct gccgttcaaa agccatagcc 180
ctcaccttta ggtctgggtt ttggacgtga gttgataaag ctgacctata cattttatag 240
cagaagaggt gtaagacagc tgcctttgtt catttattca agttttgtgt gct 293

<210> 44463
<211> 308
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-055-Q1-K1-E12

<400> 44463

acgcgtccgg taccaancct gtttcgtcag tgttcgtctc tgtgctggct gatcccaaan 60
agggtggcga tttttatggg gagggaggga gtctcttcaa aatcattgtc ccgcatctta 120
gttgtcgttc ttatagatag tgtaagtat gttacgtact cttgtgtcct gccgttcaaa 180
agccataacc ctcaccttta ggtctgggtt ttggacgtta gttgataaag ctgacctata 240
cattttatag cagaagaggt gttaaacc tgcctttgtt catttattta agttttttgt 300
tctcccc 308

<210> 44464
<211> 370
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-055-Q1-K1-E2

<400> 44464

gaccacgcgt gcgtgagaat ggtcacagga gataacataa attcagctta gcaattgctc 60
ggaatgtgta gtctggctga atatggcata gctatggaag gaccagagtt canagagaaa 120
agcctagctg aactccttga actgggtcca aaaatacagg taatggcccg atcatcacca 180
cttgacaagc atacacttgt aaagcatttg cgcacaacat tcaatgatgt tgttgctgtt 240
actggtgatg gaacaaatga tgctcctgca ttgcatgaag cagatatggg acttgcaatg 300
ggcattgctt tgactgatgt ggcaaaagag aacgcttatg ttataattct ggacgacaac 360
ttctccacga 370

<210> 44465
<211> 366
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-055-Q1-K1-C3

<400> 44465

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcttt tctggcgacg gcggcggcga 60
cgacgacgag cagccacctg gggaagagca ggtagcagga aatggcgggc ttcctgaggt 120
caaaatgttc accagttgga cgtactttga tgggaagcct tggaaatagt ttgtttgggg 180
ctgccaactc ttctgttggg gcaataacaa ggccttctca ttgcgatgct atcagtcagc 240
aaatcagaac attcatccag atgaggacta acctgaaggt ggtcgataac tccggggcca 300
agcgggtgat gtgcatccag tccctgaggg ggaagaaagg agcaaggctc ggngacatga 360
tcatcg 366

<210> 44466
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-H5

<400> 44466

cccacgcgtc cgcccacgcg tccggccgag aacacccgtg cgccggcggc ggcttctctg 60
ctgcctccta cgacgccggc ggccccggcc gccgcgaggg cgaccaaggc ggccggcgcc 120

gtgcccgcgg agaagcccag gtccaaggcc aggaagcccg gcgccgtgct gccgggtggcg 180
acgttcgcgg cgccggaggc gttcgagccg gcggggagca tcgccgcggc gcggcgaggag 240
cacgccgcgc aggcgcaggc gcagcgcaag tcgcggatcg cgcactacgg ccgcaccgcg 300
tccttctccc ggggtggaggg ccgagtcggc gccacggcca cggccacggc cgccgccgag 360
ccggccgttc cagcctcccc 380

<210> 44467
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-H6

<400> 44467

cacgcgaccg cccacgcgtc cgcccacgcg tccggccgag aacaccctg cgggggcggc 60
ggcttctctg ctgcctccta cgacgccggc ggccccggcc gccgcgaggg cgccaaggc 120
ggcgggcgcc gtgcccgcgg agaagcccag gtccaaggcc aggaagcccg gcgccgtgct 180
gccgggtggcg acgttcgcgg cgccggaggc gttcgagccg gcggggagca tcgccgcggc 240
gcggcgaggag cacgccgcgc acgcgcaggc gcagcgcaag tcgcgggtcg cgcactacgg 300
ccgcaccgcg tccttcggcc cgggggtcgat ggccgagtcg gcgccacggg cacggtcagg 360
gccgc 365

<210> 44468
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-A2

<400> 44468

acgccacgcg tccgaactgg gtcgccagg atgagcagtt ctggtacatg gctctgttgg 60
ttgtctcggg tgtctgttac attgccacgt tctgtttctc gggctctcta tttcactggg 120
tcactccatc tggacatgac tgcggactca acctgttctt cattgtcttc acgttgattc 180
ttgtttttgc gtttgctatt gttgccctgc acccaaagat caatggaagc ttgttgacctg 240
catcagttat tggatatgtac tgtacatata tgtgctacag tggactctcc agtgagccaa 300

gggattacga atgcaatggg cttcacaatc actcaaaagc tgtgtcaact tgtagcccta 360
cattgggac 369

<210> 44469
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-A3

<400> 44469

cccacgcgtc cggctccggc tcaaggacga gaagctggag gcgttccggg ggcgcgcggt 60
gagcatggac gtcgaggcgg cgcgtctccg gagccggatc cagcagctgg agggccgtct 120
agcgcggcac gagaagcaca gcgccgcgct ggaggccctg ctccaggaca gggaaagcga 180
gaacagagca ctcgaggagc agctggagac gctccaagcg caggcgcttg gtgtggagat 240
ctgcacgccg gcccgtagga gtggccaaga cgacgggctc gacgaccagt gcatcgctg 300
ttcgcccgtg gatgccgtcc agagaacaat gtcacccgga agctcgcg 348

<210> 44470
<211> 372
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-055-Q1-K1-A4

<400> 44470

cccacgcgtc cggccacgcg tccgggtaac tgatgtcgag caggcagaaa attggttttc 60
cttaagggca gtcacgcga tatgtgacat gtttcttgca ctagataagg atacaaacgg 120
tacactgagc aaacaagaac tcaaggaata tgcagatggc acattgactg agattttcat 180
tgaaagagtt tttgatgagc atgtccgccg gagcaaagtt ggaggtggaa acagtcgcga 240
gatggacttc gaaagctttc ttgattttgt tttggctcta gaaaacaaag ataccctga 300
aagcttgaca tattttattta gatgcctnga tcttaatgga aaggggttcc ttacaactgc 360
agacatccac ac 372

<210> 44471
<211> 395

<212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-055-Q1-K1-A5

<400> 44471

cctccccgctg cacgcatctc caggggtccg atccatgggc tgcttcctcg cctgcttcgg 60
 cggcgacgcc ggccggcgcc gccgacgcca gaagtcgagg aggcagtctc ccgcgaggac 120
 tccgcccgcg tcgattcatg ttgcgggtgg ccgcgaggcg gcggatgtgg tggatgaagga 180
 ggtgtcgccg ccgttgcgcg gggcaaagcc ctcaacgctg gcggaggccg tggaggcgcc 240
 gcacgatgag gtcgccgagg atgcggatgt ggcggcgaag gacgcgtcgc tgccgtccca 300
 tgaggtgaag gcttcaacgc cgcgcgccggc tgtggcggtc gcngatgagg cggtcacaga 360
 cgctagcccc gtcgacgagc tcagggattt gactg 395

<210> 44472
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-A6

<400> 44472

attccctgcg attcctctcc cctcgctctc tcgtctcccc ctaggggatc gtcggagagg 60
 aatcgcaaag agggccgtct catccgagtt aaggaagcca tggagcacia ggaggctggg 120
 tgccaggccc ccgagggacc catcctctgc atcaataact gtggcttctt cggcagcgcg 180
 gcgaccatga acatgtgctc taagtgccac aaggagatga taacgaagca agatcaggcc 240
 aagctggctg cctcctctat cgacagcatc gtgaacggca gcgacgccgt catggagccg 300
 gttgttgctg gcagcaaacac ggtagtagc 329

<210> 44473
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-A7

<400> 44473

cccacgcgtc cggaagcgg aagcgaggcg cccgtcatgc tctgcctcag cctggtcgcg 60
ccaccaccga tggccccgc cgcccgggcg cgccggcggc ggcacccgac ttctgtgacc 120
cgccgcggcc aaacctcgc cgccctcccg tgccactgtg gacggcgga cgtcatcggt 180
gcctcctcgg ctgcgcgtct ccttcctttc ctgcgccctc cttctctggc cgctccgccc 240
gtcgaccccg acgtgggtgct ccagcgagtg caccgcgtga ggccggactg gtatgaggag 300
ttctatg 307

<210> 44474
<211> 366
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-055-Q1-K1-A8

<400> 44474
cccacgcgtn cggtttttga agtttgggag cagtacattt taatggagat aaaaatggac 60
catgtacatg aggcgagatc cctttataag cgttgttata gcaaaagatt tgctgggtct 120
ggatcagagg agatatgcta ctcatggata agatttgaag aggagaatgg caccttggat 180
gattatgatc ttgctgtaaa gaaggttacc cctcggctaa aggagcttat gacattcaag 240
tctcaagagg aggctaaagt tgaggcttac cctaacctca atgataattc taatgcaaat 300
gattcctctc agaaaagaaa acccagtnac aataaacagc agccccctgc taaagaaaga 360
aaagag 366

<210> 44475
<211> 359
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-055-Q1-K1-A9

<400> 44475
caagacggac ctccgcttcc agtcctccgc cgtcgccgcg ctgcaggagg ccgccgaggc 60
ctacctggtg ggcctgttcg aggacaccaa cctctgtgcc atccacgcca agcgcgtcac 120
catcatgccc aaggacatcc agctcgcgcg ccgcatccgc ggccgagcgcg cctaggcggt 180

tcggttgagg cgctgctcg ctactgctgg aggtgcttag tttagcccg catggttgtg 240
 ttataggtgt gcgttgtttt caagagtagg cttcttgcta tgtgctgatg ttaacggagg 300
 attatgatta gcagttctga aaaaatgcaa tggatgtgat ctgctctatc taananaaa 359

<210> 44476

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-B11

<400> 44476

gtcttgagg gggtgaccct tggagagggg ccagatcagc atgtgtggaa gtttactcag 60
 gccgattgct aactagcta atcagcctac tctgctttct ttgaggggtc tgtcaagttc 120
 agaccttga gattaatttg gaagagttgg gctcctctcc gctgcaagtt ctttctttgg 180
 cttgccagga acaaccgatg ttggactatg gatcggcttg ccaaacgagg ctttctcac 240
 ccagattcat gtcccttggt tgaccaagcc ggtgagaccc ttcagcacat tctaattggc 300
 tatatcttct ctagacaaat ctgggccttg attttgcaat ccttgcatct agaggccatt 360
 acgcccaatg ggggcagag 379

<210> 44477

<211> 357

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-055-Q1-K1-B2

<400> 44477

gaagcggcgg cggcggagca aacgcaggcg aaggcgaggg tgtgagggaa ggagcaccag 60
 ccatggtgca cgtcaacttc taccgcaact atggtaagac gttcaagaaa ccaaggcgtc 120
 cttatgagaa ggagcgtctt gatgctgaac tgaagctggg tggtagtat gggctgaggt 180
 gcaagcgtga gctttggagg gtccagtatg cactgagcag gatccgtaat gctgcaaggc 240
 acttgctcac ccttgacgag aagaaccccc gtcgtatctt tgaggggtgag gcacttcttc 300
 gccgcatgaa ccgctatggg ctgcttgctg agggtcagaa caagctngat tatgttc 357

<210> 44478
<211> 367
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-055-Q1-K1-B3

<400> 44478

cccacgcgtn cgcccacgcg tccgtgataa acggacacta tccacagata atgcaagatc 60
tcgtgaagga gaggctgccc aggttcactc ctgagcaggc taaactgggtg aagggctcgg 120
cagactacat cggatatcaac gagtacacat ccagctacat gaaggggcag aagctgggtcc 180
agctggcgcc cagtagctac tctgccgatt ggcaggttca atatgttttt gcacgcaatg 240
gcaaaccgat tggaccacag gcgaattcta agtggctcta catcgccccg acggggatgt 300
acgggtgcgt gaactacctc aaggagaagt atgggaatcc aacgatctac ataacggaga 360
acggaat 367

<210> 44479
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-B6

<400> 44479

gggtttcaag atcttccggt ttagcattct agcaaaggca gcatccatgt ggggccgcgt 60
actttaccct aaggccgagg atctcaacaa gttgtcagct cttcacatga acatcaacac 120
cgccaagggc cttcatgact tgctcaagac caacctcttc cccaagggtca ccatcaagat 180
gcttgtgggt ggagctgggt acctgaatct tactaaagat gtgaacaccc tcttgaatga 240
aatgcatatt cataacccaa cttcaa 266

<210> 44480
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-B9

<400> 44480

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 tcgccgtcag cgtccgccc cactgcctg ttcctctcc tcgtcatgct caagacgccg 180
 aaggcatgct catcaacggc aacttcgaga cggcgccgcg gaagctgaac aagaccctga 240
 tcgtggggcg cactcgtcgt cgggggtgga cggtgcaagg ccacgtggag tacgtctcgg 300
 gcgggtcccca gcccgggggc atgttcttcg cggtgccgca cggcgtgcac gcgcttgccg 360
 ctgcgagccg cgcgtccgcg tcgcagaacg tga 393

<210> 44481
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-055-Q1-K1-C1

<400> 44481

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 ggggaaggagc accagccatg gtgcacgtca acttctaccg caactatggt aagacgttca 120
 agaaaccaag gcgtccttat gagaaggagc gtcttgatgc tgaactgaag ctggttggtg 180
 agtatgggct gaggtgcaag cgtgagcttt ggagggtcca gtatgcactg agcaggatcc 240
 gtaatgctgc aaggcacttg ctcacccttg acgagaagaa ccccgcgtcg atctttgagg 300
 gtgaggcact tcttcgccgc atgaaccgct atgggct 337

<210> 44482
 <211> 364
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-055-Q1-K1-C2

<400> 44482

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 tcggttctgc aatacggtag aaaacttca agactagtta atttcgggtt cctagaacta 120
 tacaacaaa gctaattgaa atatggacat ttggtgggaa cctgcaactg aatgaatgaa 180
 caaccattca catgctacct aatttctggc ttgctacagt tctatcatag ctcggagagt 240

atagcagggga tatagtgaga tagctcatcg gtgagtgact ggaacccatt gacaagttgg 300
 gtgtggaatt cctggtcttc ttccctatc aatctgaaat gcacacggat tggacgcttg 360
 caaa 364

<210> 44483
 <211> 282
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-F12

<400> 44483

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 caacaggggg aactcagaat tcaatcgtca tacagaacat aggtttttta aatgataatt 180
 attgagaaat taagtaaaca gtcgccatct tgatcaccac catcaaaatc actgtcttct 240
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<210> 44484
 <211> 259
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-F2

<400> 44484

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 ggtctcgcct ggggcacggg ctaccactcc ctccataacg ccttcagcac gtactgccac 180
 gtctctgagt ccatgatcat cctccgatct ggacacgcat acgtcccgcc ggggttcggct 240
 tcgtcacctt ctccactgt 259

<210> 44485
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-F3

<400> 44485

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gggcggggcg ggggcgatct gatgccggcg cggcggtgat ggcagcgccg tccggcggtg 180

ggggcgggcg tgcgggggag ggctcctcct cggccgccgc agctatgacg atcggggccc 240

acgggggttg accaagtcac agaagcgatg tggcagatga atttaggaga tgccatggga 300

ctggggccat accaagagcg tgttggatgat ccagactgta actattacat gaggactggc 360

atgtgcaggt ttgggatgac ct 382

<210> 44486

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-F4

<400> 44486

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tgagaacatc cctccacggg cgcgcgggcg gggagcacc acggacttag ggccggtggg 120

gcggggcggg ggcgatctga tgccggcgcg gcggtgatgg cagcgccgtc cgggggtggg 180

ggcgcggtg cgggggaggg ctctctctcc gtgcgcgcag cgatgacgat cggggcccac 240

ggggtgggcc acgtcacaga aggcattgtg cacattaagt tacgggatgg catgggactg 300

gggccatcct cagagccgtg 320

<210> 44487

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-F7

<400> 44487

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ggcgagaaca gcggcgcggg cgcgggcgcg ggcgaggcg agttctacct gcggtactac 120

gtggggcaca agggcaagtt cgggcacgag ttctcgagt tcgagttccg ccccgacggc 180

aagctccgct acgccaacaa ctccaactac aagaacgaca ccatgatccg caaggaggtc 240
 ttctgtctccc cctccgtcct ccgcgaggcc aggaggatca tccaggagtc ggatatcatg 300
 aaggaggacg acagcaactg gcccgagccc gaccgcatcc gccgacatga gctcgagatc 360
 gtcattgggca acgagcacat ttcatcacc ac 392

<210> 44488
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-F8

<400> 44488

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 cctagtgatc tacagaaaca ggttgttttt gtggatttag cccaatctt ctcccagatg 180
 gcggatgcta tattgagaag acaaatacaa ctactgttg atactataag tgaggctata 240
 gatggtgctg aaggttttca gaacacacac caacctcagc attatgaatc cgcaaaattt 300
 agtattgagc aggtcgtggt tattttggaa aagatacgca tcatgtggga gtcgatactg 360
 ccaagatcaa ttacaggaa aagtatgtgc aatgtcc 397

<210> 44489
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-G1

<400> 44489

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 caagtcagga cacttttggg actttgggag ccattgtaaa acggcgaact ggcaacaagc 120
 agatagggtt cctcaccaac cgacatgttg ctggtgactt ggactacca aaccagaaga 180
 tgtatcacc attgccacc aaccttgggc ctggtgttta tcttgagct gtcgaaagg 240
 caacatctt catcacagat gatgtttggt atggaatcta tgctggaaca aaccagaga 300
 catttgtacg cgccgacggg gattcaacc catttgctca cgacttcgac atctccaca 360

tcacaactac agttaagggt

380

<210> 44490

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-G3

<400> 44490

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agggcagcgg cattcggaag cgggtgggcgc aataagtgcg tgggcctctt ggcgacctgc 120

gcgagcaatc gtctcaccac gaaactgcgc atctaggcca aagtttccat cgcggtttgt 180

ggggca 186

<210> 44491

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-G6

<400> 44491

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gaggagaagg ggacctgttc aaagctccag aagccatcat cgaggaaccg ctgctcctga 120

actgtctgtc tgattctgtt catttggtgt tgtgtaggct gggcttgtgc caagcttgaa 180

tcctcttgtag aaggagtttt tcaatgctgc tgatgacaag cggaaggaag tcctctctaa 240

aatagaagag gatgttgcta agctcagcgg ttctgcagcc aactaagaag ctacaagtga 300

atgccgagga gag 313

<210> 44492

<211> 285

<212> DNA

<213> Zea mays

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<400> 44492

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agaatatgac ctgggaggag aaggggacct gttcaaagct ccagaagcca tcatcgagga 120
accgctgctc ctgaactgtc tgtctgattc tgttcatttg ttgttggtga ggctgggctt 180
gtgccaaagct tgaatcctct tgtgaaggag tttttcaatg ctgctgatga caagcgggag 240
gaagtcctct ctaaaataga agaggatggt gctaagctca acggt 285

<210> 44493
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-G8

<400> 44493

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cgccccagag gcttttagag gacaagtcac ctatgttcat acagctagta tcggaataact 120
ccactcggtc gagctgtata tagagaggct gcttaaaacc ccgccccaaa cctggcaaca 180
gaggctggga ggcaaatagc ccgtatctgc cagtgtactt gcttgcgcca tagagggtccc 240
tgcgaaacacc ggagggcggc gtagaagacg aggtgtacat gagtgggagg aacactgggc 300
gttccttgac ctgaataccg tggaatcggc gagggagcgc gggttggtatt ggtaggcacc 360
aagggaggag ttggtgacac tag 383

<210> 44494
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-C8

<400> 44494

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tgtgataagt tctaaaaatt acttgcactt ttgtgggtgg acgatcaaga ggggtcaagga 120
ttatcataca ctatcattca acctcagagt acttctatac tgtcacatat tttcatttca 180
ctggccattg tttt 194

<210> 44495
<211> 217

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-053-Q1-E1-D1

 <400> 44495

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 tccagttccc gccgcgggtc cagtcccggtg gcgggagacc aagagggagt ggatttcgat 120
 gcacatcagg catacccgta tccagttcag aaaggcatgc atgtagactg tcacggcttg 180
 accatggaaa tcatgctgac tgtgaaatgc ccggtga 217

<210> 44496
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-053-Q1-E1-D2

 <400> 44496

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 tggatgtgca cagtttccgg accgattggc tcaagaacag caagattggc agaagcagga 120
 gcgtgcatta cacatctcct gggaacctgg acaacgggat gcttcgggttc tatctgacac 180
 caatgagaag ctccagaact gcgaacaggg ggaggaggag aagttcgcgc ttgtttgcgc 240
 gaggactttt cggtttcata taagtggctc aagtagagcg ttagcccatg ccatgcgttt 300
 ttttaaagat ggcagcagca gaagcaactt ttctttggga tctacttggg ttctaaggat 360
 tggcatcctc gtaagttgtc cgtc 384

<210> 44497
 <211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-053-Q1-E1-D8

 <400> 44497

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 cctgtcgcgc tcgccgttcc ccgccgcgca gaactcagaa ggtgttcttc cgacttgacc 180

ttctccaccg ttagctggac tcgtacgcga tctcaggatg gcacagttcc acttggttga 240
 ccctcactac gacgagcacc acaggggccg tctcaccgca gagggagagg tgttgcccgt 300
 tctgcggggtc cggacccacg accggtttct gggggagatg aggtacgatg agaggtagac 360
 tcctcgtcct acagag 376

<210> 44498
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-E1

<400> 44498

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 acgaagtatt cagaccgaag acaatggacc cggcgcgaa cagcgtgtgc gtgaccggtg 120
 ctggcggcctt cgctcgcgtc gatctggtga agctcctcct ctcccggagc gaagacgcgg 180
 tctgcgggac cgtgcacgag tctggtgcta ccacgaatgc ccagctcaag gtgctggcag 240
 gagctgagga aacgttgcaa cttctcaatg ctgatctgat ggactacaac agcgattgca 300
 tcagcacttg ccggtgtca tgggtgtcttc catgtagcca atcctgtcgt ttctcatcga 360
 ccctccaacc ctg 373

<210> 44499
 <211> 471
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-E11

<400> 44499

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 aaattttttt ttttcttttt ttttttcttt tttctttttt ttttttcttt ttttcttttt 180
 tctctctttt tttttatttt ctttttttat ttttattttt ttttttcttt ttttcttttt 240
 tctttttttt ttttttctt attttttttt ttcttttttt ctttttcttt ttttcttttt 300
 tctttttttt ttttttttat tctctttttt ttttttctt ttttttttat tctatttttt 360

ttctcttatt tttcttatct tttttttctt tttttctttt tttttactct tttatctttt 420
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<210> 44500
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-E12

<400> 44500

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 atgtcggggg caggatccgc cgccgaaacc gccgtcgtcg gcgtcgtcgc aagcgtccct 180
 agccagcagc agagcagtc cgcgcgcgcg gcgccgtcgc tcccgctcgc ctaccccgtc 240
 tgggagaacg agcggtaacg cggctgcagc tttacgacgt catcgtcgtc gctctgccac 300
 ctgcccta 308

<210> 44501
 <211> 170
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-E2

<400> 44501

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 actcgtgcac gactctgatg ttgcctcgaa gtctcagttc aaggtgttgt 170

<210> 44502
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-E3

<400> 44502

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ctcttcacc ccgtctctcc tccaaacct cgacctca gtgcgctcgc ctcccgccgc 180
gggagcaggg cggtcgcgg agctgcggcg gcggctgcag gcggacgcgc cgtcgtggg 240
tgacttcacg tactcagtgg aggtggggac gcggcagccg cccgctgccc aagcccaagt 300
ggatgaatga gaccgtgcct ggcggcgcca agtacgcggc catcaaggcc aagctgcggg 360
agctgaagct gcaca 375

<210> 44503
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-E4

<400> 44503
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cttcacacc gtctctctc tatactctcc gagcctcagt gctcgtcccc tc 172

<210> 44504
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-E5

<400> 44504
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gtaagtattc ctatcgtggc acaaaccctc ggatcagagt accggagcgc gtacctcggc 120
ccataagtgc aaggagcac accctgacga acaccagga gaactacccc actgcgaaa 179

<210> 44505
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-E7.

<400> 44505

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gttaggcgat gtgatttttg ctctgtcaca gaaaagtatc cacgtgcctt atagaaacag 180
caagctaaca caagttcttc aaagttcttt aggtggacaa gcaaaaactc taatgttcgt 240
tcaaataaat cctgatgttg agtcatattc agaaactata agcactttaa agtttgctga 300
aagggtgtct ggagtagagt taggtgctgc aagaagcaac aaggaaggaa aagatattaa 360
ag 362

<210> 44506
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-E8

<400> 44506

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cggcctcgcc tgggccacgg acgaccactc cctccacaac gccttcagca cctacggcga 180
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gctggacggc cgcaacatca ccgtcaacg 329

<210> 44507
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-C6

<400> 44507

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tgcatctggg atattcaaca aactatgcag atgttttagaa cagcaagcac tgacaatgaa 180
gctgtgatgt caaaggcgcc atcgaggcct gttacaagc cagtcacaa agatataagg 240

cgagcaggca attataagta cagaatcgat gaattgaatg acccacctgt acgccatcct 300
 gggatacggt ctttgcctgcc cttgccagggt ggtgatctat taactggagg aacagatttg 360
 aagattcggt actggg 376

<210> 44508
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-F1

<400> 44508

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 gccggacggg gacgacgggc ggccgtcggg cgtcggcggg gagcatgacc ggctgctgcc 180
 catcgccaac gtcggccgca tcatgaagca aatcctgccg cccaacgcca agatctccaa 240
 ggacgccaag gagacgatgc acgagtgcgt gtccgagttc atccgcttcg tcaccggcga 300
 ggcctccgac aagtgccaca aggagaagcg caaga 335

<210> 44509
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-A5

<400> 44509

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 aaagaagggc ctacgactaa gagggtttaa ggatggaagt gtcccgggac gaagaacccc 180
 aagaagagac ggccctgtcc gattaattac gaaccattc attataaaag taaaggggat 240
 tagttctccc atagtacctt tactgagaat acttcggtag cggaaaactc ggaggaggag 300
 ctccctaaaa cgaacaatac gccttaggct acctagttag agtgcggtgc gcatacctag 360
 gttaatatcc gtgcgga 377

<210> 44510
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-A6

<400> 44510

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 gggccgcctc gacggcggcg ggcgcgggct ggtctccttc cgcttcccgg acagcttctg 180
 ggcgggccgc gtggtggcgc gcacgggatg cagctccggg cattcccggg gcgagacggg 240
 aagcgttgcg ccggcgacgg tgggtgcagct ggtggtgcac gcggaggggc aagacctggc 300
 gtcgtacagc gtgagcctgg tggacgggtt caacgtgccc gctgtggtga gcccgcaggc 360
 ggtgggcggc gggcagtgcc 380

<210> 44511
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-A7

<400> 44511

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 gcatctccga gaacacgggc cgctcgacg gcggcggcg cgggctggtc tccttccgct 180
 tcccggacag cttctgggcg ggccacgtgg tggcgccac gggatgcagc tccgggcatt 240
 cccggtgcc aacgggaagc gttgcgccg cgactgtcgt gcagctggtg gtgcacgccg 300
 aggggca 307

<210> 44512
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-B1

<400> 44512

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cgtcctgttc cggccccctc ctgccgccgt ggccgccgcg aagccccgcg cgatgccgtt 180
ctcctcggcg cccgcgacga gaccagctc cgacgccgag ctactcagcg tcctcgactc 240
cgagatcaag tacgccgagg actgcgatga ccacgacagg gttgaggaga ttccagaaaa 300
tttccctttc aaaatcagcg acgagaaggg gacgaatgca gttaccctta aaagaacata 360
tcagggtgag cagattg 377

<210> 44513
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-B2

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gccccctctc ggggtgtgg cgccgcctgt tgctctttc tatggcgttc tc 172

<210> 44514
<211> 192
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-B3

<400> 44514
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ctgctccggc ccctcgctgc cgccgtggcg ccgcccgtgc tccgcgtcct gtctttctcc 180
tcggcgcccg cg 192

<210> 44515
<211> 114
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-B4

<400> 44515

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caaatttgcc aaatgtgtac atcggaaata tgggaataaa agcctttatc gatc 114

<210> 44516

<211> 350

<212> DNA

<213> Zea mays

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<400> 44516

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tttttttttt tttaaacggg aatttcagtt ctcatagcat tagcatgaat ctcagaacat 120

aacaggtgaa acacgaatca agcagaggcg ccatgggggtt cacagatcca cacctaaacc 180

gctaaattaa actgcgagcg atacatgata aactaagacc accactcaga tcaccagcat 240

cttattcaga tccaaaggaa cggacgcagg gggagtcgac gatgacggag ggagggcggc 300

cgaacagacc agatcagaga gatctaggag agctgtccgc agtcagcgac 350

<210> 44517

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-B8

<400> 44517

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ggggatcccc aaaagataat aagtgagaca ctaatcgaac agacgcgcca tgtggttcat 120

agctccacac ctaaaacgct 140

<210> 44518

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-C10

<400> 44518

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ctattggggg tggatgatgat gctttcaaca cgctcttcag gggagactgg tgctgggaag 120

cacgtccctc atgcgggtttt tgttgacctt gagccaactg tcatccatga tgttcggact 180

ggtacctaac gtcattctctt ccacctgta catcttatca atggcaagga cgatgcagcc 240

aacaacctct cccgttggca ctacaccatt gg 272

<210> 44519

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-A4

<400> 44519

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agagcgagca ccgtgacctc tctgtttctc tctcttcctt tctcgtcttc tgcaagaagc 120

cacaacaaat gtgaccgtct ctgtttctct catccccctc atcactctgc tgggtctcct 180

cttccacctc tgggtcttggc catggcctcc agcgccctcc ggttcatcaa gtgcgtcaca 240

gtgggggacg gcgccgtggg aaagacctgc atgctcatct gctacaccag caacaagttc 300

cccactgatt acataccacac tgtcttcgat aacttcagtg caaacgtggg agtcgacggg 360

accacggtga atttgggcct ttggg 385

<210> 44520

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-C2

<400> 44520

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tgctaataag agtaaattcca gaggaatga cccggatgat gatctgtgtc ttatggatcc 180

agatggcaac aatctgaaac ctgatccacc ctcccgctcg ctttctagcc ccgtcgccat 240

ggcgtcctgg ctgacgtcgt ggatgccaag cccatgcctg cgttgaaaga gagggagacc 300
agagacaccc agtggccctg gcggtagtag tgccaagggtt ctattcactg tgagtccgcg 360
acgccccat 369

<210> 44521
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-C3

<400> 44521

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gctaataaga gtaacgcctc aggaggtttc ccggttgatg ttctgtgtca taaagatcca 180
catgacaaga atctgaaacc tgatacatcc gcccgcactc attctagcag catcggaat 240
tagttctctc atagtacott tac 263

<210> 44522
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-G1

<400> 44522

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gttgatgatg tcaatggagg gagacttata ttctatgact tcgggatgat gggaagtatc 120
agtcaaaata tccgggaagg attgcttgaa gtattctatg gagtttatga aaaggatcct 180
gacaaagtgc ttcaagcaat ggttcaaatg ggtgtccttg ttctactgg agatatgact 240
gctgtcagaa gaaccgctca atttttcctt aatagctttc aagagcgcct agcagcacia 300
aggaaggaga gagaaatggc aaccgcagag cttggattca aaaagcaatt aact 354

<210> 44523
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-052-Q1-E1-G10

<400> 44523

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ccgccacccc cgatgctgcc tcanggaggc atgctggggc aggggtttga tcctggttat 180
ggcgccatgg gaacgatggg tgggtgggtt ggtaacttcc ctgttgacc aagtgctggg 240
ccgtttcctg ggatgatgca gccatttcct ccggttggtg caccacacat aaaccgggcc 300
ttctttggtc gtggtgccaa tggggctggt ggggtgggga tgtggcctga ttccggcatg 360
ggggcttgga gtgtggaaga acaatcaaat ttatgggatg atgcagtgtc tga 413

<210> 44524
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-G12

<400> 44524

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cagttctggt acatggctct gttggttgtc tcggttgctt gttacattgc cacgttctgt 120
ttctcgggtc tcctatttca ctggttcact ccatctggac atgactgcgg actcaacctg 180
ttcttcattg tcttcacgtt gattcttggt tttgcgtttg ctattgttgc cctgcacca 240
aagatcaatg gaagcttggt gcctgcatca gttattggta tgtactgtac atatctgtgc 300
tacagtggac tctccagtga gccaaaggat tacgaatgca atgggcttca caatcactca 360
aaagctgtgt caactggtag ccttacattg ggactcctta ccacggtcct ctccgtggtc 420
taatctgctg t 431

<210> 44525
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-G2

<400> 44525

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atgctgaagg gaatccatca gttcaaagg aaatattaga tgcactgcaa agtgccagca 120

agtctcttgg ttctgataat gttaaagtaa aacaagcagc ttcatacaat cctggtgttc 180

caccatcttc attaatgtca ttcataagga agaacatgtc aacttctgga gttgtgttgg 240

aggattttga ttcccacttc tccaataaat tttatcaaaa ctatctggga tactctgtaa 300

acatcaattc ctcgtaata gctgcagccg cccctttggt tgccaggtcg atgtatattc 360

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<210> 44526

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-G6

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catcggccag gccggtatcc aggtcggaaa cgcggtgtgg gagctgtact gccttgagca 180

tggcattcag gctgacggtc agatgcccg tgacaagacc attgggggag gtgatgatgc 240

tttcaacacc ttcttcagtg agactggtgc tgggaagcac gtgccccgtg ctgtttttgt 300

tgaccttgaa cccactgtca tcgatgaggt gagaactggc acctaccgcc agctcttcca 360

ccctgagcag ctcatcagtg ggaaggagga tgcagccaac aactttgccc gtggtcacta 420

caccattggg caagagattg ttgacc 446

<210> 44527

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-G8

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gaagggaatc catcagcttc aaaggaaata ttagatgcac tgcaaagtgc cagcaagtct 120
 cttggttctg ataatgttaa agtaaaacaa gcagcttcac caaatcctgg tgtccacca 180
 tcttcattaa tgtcattcat aaggaagaac atgtcaactt ctggagttgt gttggaggat 240
 tttgattccc acttctccaa taaattttat catagctatc tg 282

<210> 44528
 <211> 283
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-H1

<400> 44528

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 cttcgagtgc tgcacacctgt cgtccggcgg catcgtcccg gccggagaga gcgcggggac 120
 ggacatgtgc gtggccgacg aggtcttctg ccagggcaag ctctctccgc tccgcgcctc 180
 ctccggccga gcctccgacg gcgccagcgt cgccacgctg ccgaggtcgg agtcggtggc 240
 ctccaccgtg ggctcgtgt ctcggtccgg caacccccat etc 283

<210> 44529
 <211> 258
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-H10

<400> 44529

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 ttttattttg ttttagttgt caaatgcacc tgtttttgaa caatatttgt gatgtattgc 180
 cctgccgcgc ttaaagtccg aaaatatattt ggtacctgct gtgagtttca aaaaaaacia 240
 agttggttcg ggttaagg 258

<210> 44530
 <211> 139
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-H11

<400> 44530

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actgttcaac gcttattacc ctactatact gttggatggt ctttggacct gtttcatttc 120
gcacaaggat tggacttcc 139

<210> 44531

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-H3

<400> 44531

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gtttttgttg gaccttttgt tgcgaagcaa gaaagagatc attcttttga caagacaaaa 120
tttaacaatg tctttgtgaa aaatttgtct gagtctacca caaaggaaga ttactcaaa 180
atctttggtg aatatgggga tattacaagt gctgttgtga tgattggtat ggatggtaaa 240
tcaacgtgct ttggtttcat caattttgag aat 273

<210> 44532

<211> 280

<212> DNA

<213> Zea mays

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<400> 44532

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ttggcccttt tgttctcagg caggaagaca cagttgtctt ttgacaggac agggggttagc 120
aatgtcgttg tcaaaaattt gtctgagtct accacaaagg aagatttact caaatcttt 180
ggtgaatatc gggatattac aagtgctggt gtgatgaatg gtatggatgg taaatcaacg 240
tgctttgggt tcatcaattt tgagaacca gatgcagctt 280

<210> 44533

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-H5

<400> 44533

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ctcagacgat gaaccttcca aaaaaccagt tgccggttta aaaaagcctc ctgccaatg 120

tagcagcact gatgatagca gtgacagtga tgatagtagc tctgatgagg aaccaacaaa 180

gaagcccacg gtccttttaa agaagcccac tgtcctttca aaaaaacctg tcacagcagt 240

cagtaatggg tcaaaacagg tttaaacctg atagcagcag ctctgacagt agctcagatg 300

aagatg 306

<210> 44534

<211> 281

<212> DNA

<213> Zea mays

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<400> 44534

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aagcttccaa aaaaccaatt gccggttcaa aaaagccgcg tgcgagtagt accaccagtg 120

atcataccag tgccactgac gacactagct ctgatgacga acgcaccaac gaacgcgcac 180

ggtcctttcg aagaatccca ctgcccggtc acaacaacct gtcacagcag tcactcatcg 240

ttcacaacag gttaaccctg atagcaacac ctctgacact a 281

<210> 44535

<211> 261

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-052-Q1-E1-H9

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tactgtttca tctgccggtt taatcatcaa ttcgtctact gtaatagcag cgacttcaat 120

attttatattt gtttttagttg tcaaatgcac ctgtttttga acaatatttg tgatgtantg 180

ccctgccgcg cttaaagtct gagactatct tggtatctgc tgtgatgttt cacatgaaac 240
agagttgatg tctggtttag t 261

<210> 44536
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-A10

<400> 44536

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gaaatctaga gatgcatcca tgaatcgga gtcgggttag accaaaagct gacaaacttg 180
acgaaagctg aaaatatcga tgttgaagga ctttttatag ttttactaat gatggggatc 240
ccattgattg atgagatacg ggaaaattca gcatcaattt ataaataatg aaaatgtact 300
ggagaatgga ttacatata gaagacatac attggtcacc actcatgatt agtgataccg 360
tgtacagcat tctccgggg cgatcgaaag gcagcactgt agggtagcta cgacagcttt 420
ttcagacata 430

<210> 44537
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-053-Q1-E1-A2

<400> 44537

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ttaagcaaag gtgtaggggc agcttgaatg gcagcgtaa tgagaatggc caacatgata 180
tccacgttgc tacacttcga tacatctgtc gagatctatg tcattgtcga gttccttgtc 240
gtcatgcttg tcctcaaatt caactgcac tgaaactact gcgtcaatga tggattcggt 300
gcggcgtgtg tattgtcagc tg 322

<210> 44538
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-053-Q1-E1-A3

 <400> 44538

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 tcaacagcaa catggtaaaa aactaccgac attgctgctc tccaacaaag atgatccaca 180
 tctctgccct cccccaagag atctctgagg aagcaatcct gaaccatttg tctgagcacg 240
 gtactgttgt caacaccaag ctatttgagg tgaatggcaa gaggcacgct ctcgttttat 300
 ttgagactga agaggcagcg accgaggccc tcgtgtcaaa gcatgccagc acacttgaag 360
 gtaacacgat ccgggatctc tttctcccag atgc 394

<210> 44539
 <211> 220
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-052-Q1-E1-F8

 <400> 44539

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 ccctcctcct gcctccgccg gcgccgacac ctacgggccg ggggctcctg ccgccgcgca 180
 agggaaacttc aacctggcca actggttcgc cagcatcctt 220

<210> 44540
 <211> 105
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-052-Q1-E1-C6

 <400> 44540

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<210> 44541
 <211> 408
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-052-Q1-E1-C8

<400> 44541

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ggagctttca ctgaatatca actgtataca gtacaggaga ctagatggaa caatgtctct 180
caatttaaga gaaaaaaatg tgaaggattt taacactgac ccagaggtta gagttatgat 240
tatgtcactg aaagetggta atcttggctt caacatgggt tctgcttgcc atgtaattct 300
ccttgatctc tgggtggaacc cttatgctga ggaccaagca gttgatangg cacacaggat 360
tgggcagact aggcctgtta ctgtatctcg cttgaccgtt aaagacac 408
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<210> 44542
 <211> 243
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-C9

<400> 44542

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aactgtaagt ggcgccgggc ggacaccggc gaggaggcga cggaccgacg gcgcactccg 120
tcgaggggac gcggaagacg tattcgga cctacgagcc aaggaggcga cgcggtgcgg 180
cgctgaacac cgtgccggag gcccgagcgc gcggggcgcaa ccggcttggc cgggcggtgt 240
ccg 243
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<210> 44543
 <211> 401
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-052-Q1-E1-D1

<400> 44543

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gtgagtacag agagtagcct tacgtagcga agctcagagc aagcgagggt acggtcaagg 120

gggggtgatgg cgctgtctcg acgcatggcg gctcccgtcc tcgtcctcat gtcctcctc 180

gtcgccacag agctggggac gaccaagggtg gcggaggcga ggcactgcct gtcgcagagc 240

caccggttca agggcctgtg catgagcagc aacaactgcg ccaacgtgtg ccagaccgag 300

aacttcccc gcggggagtg taaggcggan ggcgccacgc gcaagtgctt ctgcaagaag 360

atatgccagt actaccctcg gctttgctgg cacaagcagg t 401

<210> 44544

<211> 129

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-D12

<400> 44544

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attaaagctt cgtatggtat gtcctgaga gtgaccctga gggggagggg gggccttcat 120

tttcaatga 129

<210> 44545

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-052-Q1-E1-D2

<400> 44545

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tgcgcaaata ttttctctg tttacttcag tgcattgggt aacaagtcatt atttcaaacc 120

gcttgttttc agtagcattg tttgttctt ggggaatgta tgctatgcaa tggcatatga 180

tatgaagtcc ctaacagtc tttattatcg ccgtttactc tgtgggatgg gttctgcaag 240

agctgtcaat cgccgggtaca ttagtgattg tgtcnctgca agaatacgca tgcaagcttc 300

ggcaggattc gttagcgcaa gtgcacttgg catggcctgt gggccagcgc tagctggttt 360
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<210> 44546
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-D6

<400> 44546

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 cgatcctgtg catgggtgcta aaaaactcga gcagcagaac ttcttacctg aggaaatcga 180
 cacgcttgag cagaacttcc tgtcctatct ctttcggtgc aggtgatgga aaagagcaat 240
 tttaacatag taaatgacga tgagggtgaa cttgctcatt ctggacaata tctgttgaat 300
 cttcccatga aagttgatga atcaaagtta gatgacaaac ttctgtcgaa gtattttaag 360
 gagcacgctc atgaaaacct gcccacttcc tcagacaaat atgttatatt tcgtaggggc 420
 attggattgg accgca 436

<210> 44547
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-D9

<400> 44547

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 catcatggcg atgtccatct tcggcgggtg cgtcggcggc gactccggtg cgctcatcgc 120
 gccgtccgcg tcctcgtctc gcccgccgtt ccgtcttgct gctgggtcca agggccattt 180
 ttgtactttt cctcatggag catctagcaa tcacagccgg ctatgtgttc aacatcaaag 240
 gtgttctcgc agtccaccc agaactatgc tctttctagg aaggattttt ctctataac 300
 tcaagatgtg gaaggcttcc ttcacaatgt tgtaaacatg gggtttcttg accgtctgaa 360

<210> 44548

<211> 230
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-052-Q1-E1-E10

 <400> 44548

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 caaggcatct tacagcaagc aagaaagctt ttccatgaag ctgggaacga cgctcctgca 120
 tgtgaaaaga cccccgtaga tttacatttg gcagtccctg aaggagactc tggacttgcc 180
 catcgtgctc agcatgtact tgatgaagac ggtcgacctg tttcaacctc 230

<210> 44549
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-052-Q1-E1-E11

 <400> 44549

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 ccaatggtca catcctccac tttggtagag ctaacaacta gactagattt cttcaaggag 120
 cgaaggctgc aactgatgga acaacttcat agccttgatt tgggacgtgg atctgctccg 180
 caaggttttc cattcaagcc accctctcct tggaaccacc caaggtagga ggatgaccgt 240
 tcgatttcat gattgtaaatt tcttcagtag tggttctttt ctccccgcct ggcgattgca 300
 gaaaactgca tatacgagtg taaatgtatt ttgctcttcg atatggtttt agctttcgtg 360
 ttgtgcg 367

<210> 44550
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-052-Q1-E1-E12

 <400> 44550

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 gccgctcga aggccggttc cgacgacgtg ggtgccgcct ccgccaacag caccgccgcc 120

tccggtgagg acctcaagaa ctgggatgcg gacttcgtca aggtcgacca ggccacgctt 180
 ttcgacctca tcttggetgc aaactatctg aacatcaagg gtctgctcga cctgacctgt 240
 cagactgttg ctgacatgat caagggcaag acaccagaag agattcgcaa gaccttcaat 300
 atcaagaatg acttcacccc tg 322

<210> 44551
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3076-052-Q1-E1-E4
 <400> 44551

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 gtccgtattc anatgacagc ttccagagta cgcggaggac attgaagctg ggggagatgc 120
 ggcccccttca ttttcaatga tgtcggaggt tgctcganc ttacaagtca ctcttggttg 180
 tgggtccata gctgaacgtt cgggaaacaa cttatacaat acatgctgca tctttggttc 240
 agatggcaaa cttaagggtta aacatagaaa gattcatctt tttgacattg acattccagg 300
 aaagatcact ttcaaggaat cgaagactct tactgctggg cattatccta ctggtgtaga 360
 cacagatgtt gggcgaattg gtattgggat atgttatgac a 401

<210> 44552
 <211> 269
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3076-052-Q1-E1-E7
 <400> 44552

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 acgacgcgcg ccggtcgtcc ccggaggctc tcgtcgacgc taaagcgaga aggctgctgg 120
 gcaggagctc gtcggacatg aacaaccacc aagacgcaag ggtggccgcc ctggtcagga 180
 ngaacgtggc gctggaagag caactgtcgg cggcgtggc gagcaaggac gaagcggaga 240
 agaacctgtc cctggtcacg gacagcaaa 269

<210> 44553
 <211> 168
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-052-Q1-E1-E8

 <400> 44553

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 acccccgccg gtcctccccg gaggtcctca tcgacgctaa acctaggagg ctgctgggca 120
 agacctcttc tgacataaag aaccaccacc actcactggt ggccgccc 168

<210> 44554
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-052-Q1-E1-C1

 <400> 44554

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 atctccggct gcgacgccgg cgagcccgac accgcgaatc ggatccgccg acaaggcgag 120
 aggaagaga tggggctcac gttcaccaag ctgttcagcc ggctgttcgc caagaaggag 180
 atgcggatcc tgatggtggg actcgacgcc gccggaaaga ccaccatcct ctacaagctg 240
 aagctcggcg agatcgtcac caccatcccc accatcggat tcaatgttga aactgtggag 300
 tacaagaaca tcagcttcac tgtctgggat gtcgggggcc aggacaaga 349

<210> 44555
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-052-Q1-E1-E9

 <400> 44555

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 gatacgacca tggactccac cggcaccgga gcagggggta aggggaagaa gggagcggcc 120
 gggcgcaagg tcggcggggc aaggaagaag tcggtgtcga ggtccgtgaa ggccggtctc 180

cagttccccg tcggccgcat cgggcgctac ttgaagaagg gccgctacgc gcagcgtgtc 240
 ggcaccggcg cccccgtcta cctcgccgct gtcctcgaat acctcgccgc tgaggttctg 300
 gagctcgccg gtaatgctgc cacggacaac aagaagactc gc 342

<210> 44556
 <211> 79
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-F3

<400> 44556

aaaatgtata cagtcctagg tttttagtaa caatgatact tgcaaccttt gtctggctgt 60
 tatcaggttc taatggcgc 79

<210> 44557
 <211> 56
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-F4

<400> 44557

aaaataaggg caactcgtgc agcttttgga atcatccgac acccagcaaa tctgaa 56

<210> 44558
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-052-Q1-E1-F7

<400> 44558

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 aaggccctca agaagctcat caagaacctg gtgccacgcg agcccgcagc ggcccctcct 120
 ctccctcctc ctgccccgcg cgcgcgcgac gccgaggggc cgggggctcc tgccgcgcgcg 180
 cacgggaacg tcaacctggc caactggttc gccagcatcc tcgacgcgga gctgcacaag 240
 ctcaacgagt tctacatcga gagggaggag tggtacgtca tccgctcca ngtgctcaag 300

gagaggattg agcgcgctcaa ggctaanaag aatgacgctt ttacatccag gagtgagttt 360
tacgaagaaa tgtagagat acg 383

<210> 44559
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-049-Q1-K1-G11

<400> 44559

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ctgcttttat gccactcatg catcatgata tcatcaatga gataccgagt caccttcaaa 120
gaatgcaata tggtgcattt gcctcgtttc ttgagttggt ttgctgcctc ttctggaatg 180
tcatagcagt tactacagct tggatcaagg gggaagggtg taagatctgg ttattggcaa 240
taatttactt catatctggt gttcctggtg catatgtttt gtggtatcgt cctctgtata 300
atgcaatgag gactgatagt gcattgaagt ttggattggt cttcttgctt tacttggtcc 360
atattctttt c 371

<210> 44560
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-049-Q1-K1-G12

<400> 44560

gagagaccag gctgcagcac gatcttgcac tgacattgag gacaaaaatt tgccgcgcct 60
ttatgggact catgcatcat gatatcatca atgatatacc gactcacctt caaagaatgc 120
aatacgttgc atttgctcgc tttcttgagc cagtttgcta cctactctgg aatgtcataa 180
cacttactac agcttggtac aaggtggaaa gtgttaatat ctggctatcg gcaataattt 240
acttcatatc tgacgacact ggtgcat 267

<210> 44561
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-049-Q1-K1-H11

<400> 44561

ctgaatgtgt ttcccaaaat acatgatgcc gatctagaca agattagcca tgtttatgct 60
gaactccggc gtgaatcctc tcatggccaa ggggttccta ttgcagtaag gcatatagag 120
tcaatcatcc ggatgtcgga ggcacatgca aggatgcac tgaggagcta cgtgtctcag 180
gaagatgttg acatggccat ccgtgtcttg cttgactctt ttatttcgac tcagaagttc 240
gggtgtgcaga aagcacttca aaagaatttc cggaagtaca tgacattcaa gaaggactac 300
aacgagctgc tcctgctgct cctgcgcaca ctggtcaagg acgccgtgca cttcgaagaa 360
atcatggcag gatca 375

<210> 44562

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-049-Q1-K1-H9

<400> 44562

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ggcaaacaat gtaaaaaagt ccaaccttac atactcgatc atgcaacata atcacctcca 120
ttatactgta aactaaattc aatttactac ccaaattcat acaacttccc gactgttaaa 180
accctggcga ctcccaaadc aatggcctta cccaacataa tcgtttcgca agatatacta 240
atttcgaaaa gtcccgtacc aatcaacatt cccaacactt tcgcac 286

<210> 44563

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-A10

<400> 44563

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tctcctctct tgcccaccg cccaatgtc gccgcccctc gagccccacg actacatcgg 120
cctctccgcc tcaggagca aggcgccggc ggaggaggcc gcgtccggag ctgggcccac 180

gtacgtgaag gtgagcatgg atggcgcgcc ctacctcagg aaggtggaca tcaagatgta 240
 ctccagctac gaggacctct ccctggcgct cgagaagatg ttcagctgct tcatcgctgg 300
 tcaaagtggc ctgcataaat catcgagcaa agacaggctg actaatggct cacagggtgga 360
 tgccctcaaa agacaggagt atgtccttac atatg 395

<210> 44564
 <211> 254
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-A11

<400> 44564
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 aaaaaaaaaa aataataaca atattatagc acaacaaaaa aaataaaata ataattaaaa 120
 gggggggggg aaatattaac aacagggggcg gccctctaa aaatttcaac tttacttatt 180
 cttttatgca acttcaaacc tcttctaaat tttcccctaa atttaattcc ctgggccttt 240
 tttttaaaac tttt 254

<210> 44565
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-A12

<400> 44565
 aaccacgcgt ccgcttatat gaattgaaac tagattgaat gacaaagtaa acgttgaggc 60
 tagcaaaata agtgtgggtg tcagggtccat attctgtatt gtagaaaaag ctgaggccaa 120
 atggtggaag aaacttggtc gagatgatca aagggcacct cactttgtga aagttgattg 180
 ggacaaatgg gttgacgaag atgatgatgg tgctgatgtc aacttggatg ggatggactt 240
 ctcgaatttt ggcggtatgg gtggtatggg tggcatgggt gatatggctg gcttgggtgg 300
 tcttggtggc atgggtggaa tgggcggtat ggggtggtat ggaatggatg attttgagga 360
 tgatagtgat ga 372

<210> 44566

<211> 402
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-052-Q1-E1-A3

 <400> 44566

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 tggacgccac cggcactgga gctggaggga aggcgaagaa gggagcggcc ggtcgcaagg 120
 ccggcggggcc gaggaagaag tcggtgacga ggtccgtgaa ggccggggctc canttccccg 180
 tcggccgcat cgggcgctac ctcaagaagg gccgctacgc gcagcgcgctc ggcagcggtg 240
 cccccgtcta cctcgcgggc gtctctggagt acctcgccgc tgaggctctg gagctcgccg 300
 gcaacgctgc caaggacaac aagaagacgc gcctcgctcc gcgccacgtg ctgctggcga 360
 tccgcancga cgaggagctc gggaagctgc tgaccggcgt ga 402

<210> 44567
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-052-Q1-E1-A7

 <400> 44567

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 ccatggagga gatcacgcaa cactttttgga gttggcgcaa gcagccacgg gccatgggca 120
 cggggcagca nncacatcat cancagcaac aacaaccgt ggccatcctc cctcagcgcc 180
 gtcgtancgc cgctgccgcc gcaaccgcca agcgcaggcc tgccgctgac cctgaacacg 240
 gtggcggcca ctgggaacag cggcggtagc ggcaaccgg tgctgcagct tgccaacggt 300
 ggcgggcctc ctcgacgcat gcgt 324

<210> 44568
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-052-Q1-E1-A8

<400> 44568

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gcaggagact gagatggggg gttttgtcaa gaccacaaag agcaatgctg acttcaagcg 120

tttccagggtg aagttcaaga gaaggcgcgc tggcaagaca gactacaggg ccaggataag 180

gctgattaac caagacaaaa acaagtacaa tacacccaaa tacagatttg ttgtgctgatt 240

taccaacaag gacatcacag cacaaatcat ctctgctagt atagcatgtg atatggttct 300

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tgcagctgcc tactgcactg gccttctgtt ggct 394

<210> 44569

<211> 271

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-052-Q1-E1-A9

<400> 44569

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aactagtctg gaactgtaat tcgtgtctaa tatctaattc tcgtctgcaa ttgctctcgg 120

tttaggggttc actanaataa aaaaaaaaaag aaaaataaaa aaaaaaaaaa aaaaaacaaa 180

aaaaaagaaa aataanaaaa aaaaaaaaaa ataaaataaa accaaaataa aaatttggtta 240

tacaaattaa aaacggggggg gcggtctaaa a 271

<210> 44570

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-B10

<400> 44570

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gagacgaaca tggatgaagat gagaaattgg caaacaattc cattagcaga gggtcagggc 120

caaataaatc ttgtgattat ggcagacaat tcgggaattt gcactcaatt cctgaaacag 180

gaaatgatca tcttgtactg aacatggatg ctattgtcag atgtgatgca caaatatctg 240
 ttaccagggc tcaagccgctc acttattaat aaattgtgga ttggaatgaa actccgctgc 300
 ctgacaatga cagtgtccac cctgggaaaa agagaaaacg ccttctgaca gaag 354

<210> 44571
 <211> 97
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-052-Q1-E1-B12

<400> 44571

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 gcctaacctt taattttcat tttctattaa aatgcc 97

<210> 44572
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-052-Q1-E1-B2

<400> 44572

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 cccaagccag gccaacagtt ttgaggtggt aatggcggac caagctaacc aaccactgt 120
 ccttcataag ctaggtggcc agttccacct gagctccagc ttctctgaag gtgtacgggc 180
 ccgtaacatc tgcctttctt tctcatctta tgaaaggaga ttgccaaga ggaactacat 240
 gacccaaagc ctttggggcc cttcaatgtc tgtagcggg ggcatcaatg ttccagtgt 300
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 tttcatga 368

<210> 44573
 <211> 133
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-052-Q1-E1-B4

<400> 44573
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aggaccacgg cctaaccttt aatttttcgct ttctaataaa atgcgcacta cgggtttccc 120
ctctgatcc ttc 133

<210> 44574
<211> 195
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-052-Q1-E1-B5

<400> 44574
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aacgtacgat caagtgtgca gtctgtcctg ggtaatggcc caaatatcct tgggatgctc 120
cacccgattc ttccacattg ggtcgtcctc cctctcaacg gggaacaagc caatgggggtg 180
ggtaaccaac tccaa 195

<210> 44575
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-049-Q1-K1-G10

<400> 44575
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gaagggtaag gtcggaatag tcttggactt caactggtac gaggtcttta caaactcacc 120
tgatgaccaa gcagcagccc aaagagccag ggacttccac attggctggg ttgttgatcc 180
attgataaac ggacactatc cacagataat gcaagatctc gtgaaggaga ggctgcccag 240
gttcactcct gagcaggcta aactggtgaa gggctcggca gactacatcg gtatcaacga 300
gtacacatcc agctacatga aggggcagaa gctgggtccag ctggcgccca gtagctactc 360
tgccgattgg caagttcaat atgtttttgc acgcaatggc aaaccgattg gaccacaggc 420
gaattct 427

<210> 44576
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-052-Q1-E1-B6

 <400> 44576

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 gtccgtgacc ccgcaggagg gccgcggcaa ctgccccgtc ctgcctgcc gcaagaacct 120
 caccgagacc tgccccggcg agctgcagct gcgctccccg gccggcagcg tcctcgcgtg 180
 caagagcggc tgcgaggcct tccgcaccga cgagctgtgc tgccgcaaca tgtataacag 240
 cccgcacacc tgccgcgcct ccaagtactc ggagttcttc aagcgagagt gccgcaggc 300
 cttcacctac gcgcacgaca gcccctcgct caccacaaaa tgcgccgcgc cgcgcgagct 360
 c 361

<210> 44577
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-052-Q1-E1-B9

 <400> 44577

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 gagacgaaga tggatgaagat gagaaattgg aagacaattc cattagcaga ggctcagggc 120
 caaataaatc ttgtgattat ggcacacaat tcgggaattt gcaactcaatt cctgaaacag 180
 gaaatgatca tcttgactg aacatggatg ctattgtcag aggtgatgca caaatatctg 240
 ttaccagggc tcaagccgtc acttatgatg aagttgtgga ttggaatgag actccgctgc 300
 ctgacaatg 309

<210> 44578
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-048-Q1-E1-H6

<400> 44578

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ctcgtttgat ccccgcgggg agctctagtt ccgccaagcg tgcgtaccgg cgtccggatt 120

ccgggacgaa aatgacngag tccctggtgc ggaacaagcc ggggatggcc agcatcaagg 180

agatgccggt ggtgcaggac gggccgccc cgggcgggtt cgcgcccgtg cgcttcgccc 240

gccggattcc cacctcgggg gccagcgcca acgccatctt cc 282

<210> 44579

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-H8

<400> 44579

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cacaacgttt caaccaagaa ggcgaaggag attggtgaac gtgccgcgca gctcgacatt 120

gtggtcacca acaagctcgc caggctccgc agccaggagg atgagtagtc tggtttcttg 180

tcataacggc caactagatc ctgccattcc cggctgtagg aaactactct gctttgtgcc 240

ttgttggtac ttagaatacc agtcattttc tacatttttg gtaccagtag cgacttctat 300

gtggcatatt ctactgttat cttgcgtctt aattaactgc aactcaaggg ttcaatggtg 360

gtcct 365

<210> 44580

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-H9

<400> 44580

cccacgcgtc cggcttggtg aaaacgggac agggaaaact accttcatta gaatgctggc 60

tgggttggtg aagccagaca cagtggaagg aactgatatt gaaattcctg aattcaatgt 120

gtcctacaag ccccaaaaga ttagcccgaa attcaagaat accgtgaggc atttgctaca 180

ccagaaaatt cgggattcct atatgcaccc tcagtttggtg tctgatgtaa tgaagccact 240

gcaaattgaa caactcatgg accaggaggt tgtaattta tctggtggag agctccaaag 300
 agttgctata tgcctctgcc ttggaaagcc tgcagatata tatctgattg atgaaccaag 360
 tgcttatctt gattcggagc agcgtattgt ggcctcaaag gttatcaaga gattcattct 420
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<210> 44581
 <211> 318
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3076-049-Q1-K1-A11
 <400> 44581

actataagct tcaagatcat ctttaccaaa gtttatatca tctatttntc gggacaactc 60
 agaatttttc cgacattcgt acacgcaccc tttgctgaca actgctgttc ttgatgaata 120
 tatttctgac gctattcttt tctaggagac cctttatcaa tcaactacag actgcaagaa 180
 ctttgttgac tgcttaaagg atcataatat cattcctggc atcaagggtg acaaggattt 240
 gcttccattt cctgaatcca acaatgaatc atgttgccaa ggtcttgata gaatgacttt 300
 aaagtgttct aatttcta 318

<210> 44582
 <211> 280
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-049-Q1-K1-B12
 <400> 44582

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 tgtcctcggc ggagaagccg ttgggcgacc agacgatgct gacgaccgga atgtcgatgt 120
 tcgggaagat gtcggtcggc gtgcgcaaga gcgcgagcgg tcccgcgatg aagatcagca 180
 gcgcgagcac gacgaacgta tagggcctgc gcaacgccag ccggacgata cacatgatgt 240
 tgttcctcga agcaaggcaa gggcgccgca ttcgatgcga 280

<210> 44583
 <211> 411

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-049-Q1-K1-B9

 <400> 44583

 cccacgcgtc cggagatgct gaatcgtcag gtcgtgaagt ctgattcagc gattatcaag 60
 attccagagc gcgactttga gatccctcca gaagctcaac gtggaacact ttctactgtg 120
 gaagggatta ttatgcgagc tgtggatgag ctgcaggctc ttcaagatga acggaagaaa 180
 gtggatcctc agaaggccga agctatcgat caatttttac tgaagttgag atctcttggg 240
 tcaggagagg ctgcattcac ttttattctt gatgatcctg caggaaacag ctttattgag 300
 aatccgcatg ctccgttatt agatccttta ctatctgtga gattctacga aagaactcgt 360
 gaacaacaag cagcacttgg ttttcttgct gaaccaccaa aagaacaacc t 411

<210> 44584
 <211> 217
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-049-Q1-K1-C9

 <400> 44584

 ttccgaagtc ataactacgg tatcttatcg cgtctattaa attcactgac catcttatca 60
 caccacagtg actactaaaa cactgactat actcaactca atcgattatc agcacattcc 120
 tctatatcca cctaacatag tagctcctac taacgcaccg atcatcgatc catacatact 180
 caaaacctga attcattaat ttaactcact ctgtatt 217

<210> 44585
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-049-Q1-K1-D10

 <400> 44585

 tcgcggactc gtgggtgcag actccttcag ggagttgggt ttctatgaca tgggggaaga 60
 ggttgacctca aggtggtcag aagaggagga acgtttgttc cagcaagtgg tctcgtcaaa 120
 ccgtgcttct ctgcgcagga acttttggga tgaacttcct cttgccttcc cttccaagtc 180

cagcaaagag ctagttagct actacttcaa tgtcttcatg ttgaggaaga gggctgagca 240
gaacagggttc gaccacgcga acattgacag tgacgacgat tagtggcaag caggtggtga 300
ttttgagttt ccaataacag gaagaactga tgaatacatg ccaatcgagt cccttactga 360
tcaagatgat gttgcttgca atccattttt ctttggaggg gatttatatg gagattc 417

<210> 44586
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-049-Q1-K1-D11

<400> 44586

ttttccatca agtgggtctca tcaaaccgtg cttctctgca catgaacttt tgggatgaac 60
ttactcttgc ctttccttac aagtccagca aagagctagt gagctactac ttcaatgtct 120
tcatgttgag gaagactgct tagcataaca ggttcgaccc atctaactt gacag 175

<210> 44587
<211> 336
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-049-Q1-K1-D12

<400> 44587

ccgtgctctt ggaaagctga ngagggaggc cgagcgcgcc aggagaggcc ctgagcaacc 60
aggcaccagg tccgtgttga gatcgagtcc ctctttgacg ggaccgattt ctcgagaccg 120
ctgacccgtg ccaggtttga ggagctgaac aacgacctct tccgcaagac catgggacct 180
gtcaagaagg ccatggagga tgctggcctt gagaagagcc agatccacga gatcgtcctg 240
gttgggtggaa gcaccaggat tccaagggtc cagcagctcc tgcgggacta cttcgacggc 300
aaggagccca acaagggtgt caaccctgat gaggct 336

<210> 44588
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-049-Q1-K1-E11

<400> 44588

gcgtaaagaa tatgaacgtg ttatggctgg cattcctcct tttatgctag atatgtctcg 60
ctgggggtttg taggccacct gaatgaacaa gaggaatgat gttggcgctt ggaagcaagc 120
tctacggaat gctcagagcc agttgcagca tcaaattata aggatagaga atctcgagct 180
tatgctgaaa tatggcgtag atgtttggaa gctccagaac agacaaatgg aatcagttct 240
gtctaggatg caaaagatgg ctgtagaata caatgaaagg atagaaaatg tcaatcgaga 300
gaggaagtgc caccagcaaa atactcgaag acaacttcat gccctgaaaa ttgaatggcc 360
agaactgtgt c 371

<210> 44589

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-049-Q1-K1-E12

<400> 44589

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gccttatcag tgtacatcac tgacgagtgc atccatgcct ttgctgacgc ttctatggcc 120
actgcttatg aaaagaaatg gccattgtat cttagcacca aaaacactat tttgaagaaa 180
tatgatggca ggttcaagga cattttccag gaggtgtatg aagctgggtg gaaaaccaa 240
tttgaagctg ccggcatatg gtatgagcac cgccttatcg atgacatggt agcatacgca 300
cttaagagtg aaggagggtg tgtctgggct tgcaagaatt atgatggaga tgtgcacagc 360
gacttcttag ctcaaggttt ggctcattgg gtttgatgac ttcggttaact gtgtgccctg 420

<210> 44590

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-049-Q1-K1-F10

<400> 44590

gctcgcatth cctcccaatc catcccgctt tcaaaccgga actccaagtc gccccgcac 60

gatggcgccg aaggccgaga agaagcccgc ggcgaagaag ccggcggagg aggagcccgc 120
 tgccgagaag gcgccggccg ggaagaagcc caaggcggag aagcgtgtcc cagcaggcaa 180
 gtccgcccgc aaggagggcg gcgagggaaa gaggggccgg aagaaggga agaagagcgt 240
 ggagacctac aagatctaca tcttcaaggt gctgaagcag gtgcaccccg acatcggcat 300
 ctctcttaag gccatgtcca tcatgaactc cttcatcaac gacatcttcg agaagc 356

<210> 44591
 <211> 250
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-048-Q1-E1-H5

<400> 44591
 cgcagacgcg aggggtcaaga ttcgtgctca catcatccgc gacggggtca aggctgaccc 60
 caagaagtta cgcangatga aggagaggct tgtcggcgtc tctgangaga caccacgggt 120
 gtcaagaggc tctaccanat gcangagacc ggcgccctcc tcttccctgc cattaacgtc 180
 aacgattccg tcaccaagag caagtttgac aacctgtatg gttgccgcca ctgcctccct 240
 gatggtctga 250

<210> 44592
 <211> 351
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-049-Q1-K1-F11

<400> 44592
 cgccgattcc gccgcacgt ccttggtgct accggaaggc cctccgggccc tccaggcctg 60
 cctcgcgggg ctaatcctcc gcctccccctt cgggatccag gaccaggacg cctctccggc 120
 tcccggcaca cgctactcg ctcccttcgc ccgcccatt ntccctcgct tcaatgctcc 180
 cgtgcggtc ctncccaaac gcaggtgcgc ggtctacggg aaccccatcc gcatgtccat 240
 cctcaagtgc agagcatcca agactgaggc cctggcgcgc ttcttcccca gagcggngtt 300
 attgggcgaa cagcaggccc aggtcgtgct cgtgcttggg ggagccggag g 351

<210> 44593
 <211> 133
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-049-Q1-K1-F12

 <400> 44593

 tcgtccacgc gttcgccgac ccttgggggtt aacgacaggc aatttaaggg atctgggtttc 60
 attggaacaa tgggattccc tgaacaagag ttacatgtcc agcattaaag tggttatcca 120
 ggttaactaa aag 133

<210> 44594
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-048-Q1-E1-E1

 <400> 44594

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 acctcttctc cacctttcaa acttccaaat aaatgattgg cctgagcttt cggcaaaaag 120
 ctttgcaatc atggttttga tgcttccatc tgatagtga agaaaatggc atgtacatga 180
 attggagctg gttgaggttg ttgctgatca ggtagcactt gcactatctc atgcccgtat 240
 tcttgaagag tccatgcgag cacgtgattt actaatggag cagaatgttg ccctggattt 300
 atctcgaaga gaggctgaga tggctatccg tgctcgcaat gattttctag ctgttatgaa 360
 tcacganatg agaacaccca tgaatgcaat aatagccctt tctccttgc ttttggtaac 420
 tg 422

<210> 44595
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-048-Q1-E1-E10

 <400> 44595

gtcttcaggg atcacaaggt ccgagcctac ttcaacgaca ggatcttctt cgagacgata 60
tcgcagtcgg cgaatctgga ggccatcaag atgaagctgt gggagcagat cagcggcaac 120
atggtgctgg gtacatacaa ccagatccca gaatggcagc tcaggctagg accaagggac 180
cgaggacccg tccttgtgat cctcgacgat gtttggcttc tcccgcagct tgaggagctc 240
atcttcaagt tccctgggtg caagacccta gtcgtatcaa ggttcaagtt cccacgctg 300
gtgaaacaga cgtatgagat gcagctgcta gacgaggcgg cagctctgtc cgtcttctgc 360
cgcgctgcgt tcgaccagga gtgtgttccg cagaccgccg ac 402

<210> 44596
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-E11

<400> 44596
atcttcaggg atcacaaggt ccgagcctac ttcaacgaca ggatcttctt cgagacgata 60
tcgcagtcgg cgaatctgga ggccatcaac atgaatctgt gggagcagat cgggggcaac 120
atggtgctgg gtacatacaa ccagatccca gaatggcagc tcaggctagg accaagggac 180
cgaggacccg tccttgtgat cctcgacgat gtttggcttc tcccgcagct tgaggagctc 240
atcttcaagt tccctgggtg caagacccca gtcctatcaa ggttcaagtt cccacgccg 300
gtgaaacaca cgtatgacat gcacctgcta gacgaggggg cagctctgtc cgtcttcagc 360
cggcctgcgt tcga 374

<210> 44597
<211> 118
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-E12

<400> 44597
ccactcaggg tgccggagga tcgcgggtac agccgtgcaa ctgggcgtga ggccgcggtc 60
ggctgggttt cacgcgccgc ggcgcggcta ggcttctccg cgctcaccgc cgcgctcg 118

<210> 44598

<211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-048-Q1-E1-E5

 <400> 44598

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 gcgggtttac caactccgcg aacgcctctc ctccgccaat gacaaatccg aacatgcggg 120
 ggactaagaa gggaatattg caaccgtgaa aggacaaatt ccaaagcgaa gcagctcgca 180
 gcgcagctta tccccagggt cttccggagc ttccctgcac tcggcacgcg cgccatgtca 240
 gccatgttcg atctcgtcga tatggaggag ctgcgatca gaatacaagc tattcgtggc 300
 tttccacttc ttggcaaaga tactgaattt gtgtcaaaaa ttgcagatgt tttgggtcag 360
 ctcccttaca gcgaagaaaa tgttgagcgt gatgctgttc ataaagcgct catgtccctt 420
 atacggcaag atgttaaa 438

<210> 44599
 <211> 260
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-048-Q1-E1-E6

 <400> 44599

 gtccgactgg cggaggatgg cgggtacggc ggcgcaactg ggcgtgaggc cgcggtcggc 60
 tgggtttcac gcgccgcggc ggggctaggc ttctccgcgc tcaccgccgc gctcgcgcgc 120
 gcctacctcg accgtgctt cctccccggg ggcgcgctcc ggctcggcga ccagccctgg 180
 atggcgcgcc tagccgccgt cacctgcttc gcgctcgccg ccaaggtcga ggagacgcgc 240
 gtgccgccgc tcctcgacct 260

<210> 44600
 <211> 217
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-048-Q1-E1-F10

 <400> 44600

tacccanttc tcttcacagg tccacttcct tggagttcaa ctcaagcaat acaatacgtc 60
aaagggccca aattactctt gacaagacct ttactaccac gtcagctgtc agcagggtcca 120
atataaccaa cattgacaaa gaccctctat tcagtacaaa caagcacaaac aatacggttg 180
caattttcag acatcctcac tcaccactca aggatcc 217

<210> 44601
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-F11

<400> 44601

cttcacaggt ccacttcctt gcagttgaac tcaagcaata taataagtca acggggccgaa 60
attactcttg agaggacctt cactaccacg tgagcgggca gcagggtcaaa tacaatcaat 120
attgacaacg accctgcaat cactagaaac aagcacaaac ataggggttgc aattttcaca 180
tattctcaat cacagcccaa cga 203

<210> 44602
<211> 152
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-048-Q1-E1-F2

<400> 44602

accgagcctt cggccaagcg atcggcaaca acttttaacg ggggtccct ttcctccgg 60
taatggtcct cctcaaccca atcccccca agaacngccg ccgcccgcgc caagtcctta 120
cccacaaccg cgagcggggg cggcaacccc cg 152

<210> 44603
<211> 238
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-048-Q1-E1-F5

<400> 44603

ctaccacttc agctagcagc aggtcaaata naagcaagat tgacaaggag cctgcagtca 60
 gtagaaacaa gcagaacaat agggttgcaa ttttcagaga tcgtgagtca gagcgcaagg 120
 atcctgatta tgacagaagc tatgacaggt atatgcaaag atttgatcct ggatttggat 180
 ttagtggcgg cccatacaca attcaacccc tctatacccc tgctgttaac tacaacac 238

<210> 44604
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-048-Q1-E1-F7

<400> 44604

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 ggatgagaac atggctgggt aatggaacca cacttcggga aaatggaatg gagatgccga 120
 ggacaaaggt attcaaacct ccgaggatta caggttctat gccatttcag ccgaataccc 180
 tgagttcagc aacaaggata agacctgggt gctgcagttc tctgtgaagc acgagcagaa 240
 gcttgactgc ggtgggtggt acgtcaagtt gctgggtgggt gatgtanacc aaaagaaatt 300
 tgggtggagac acatcttaca gcattatggt tggaccagat atctgtgggt acagcaccaa 360
 gaaggttcac actatccctg aca 383

<210> 44605
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-G1

<400> 44605

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 tttccaaaac tagctcatat taatataatt ttgagacaga attcccgtcc gaattctatc 120
 actgctatca caattgattc cttctctcca aaggggaaaa acggaatata tataaatata 180
 tcctttgttc tgctgtaata gatactacaa gtggagtcac atgcaatata aatgcacgat 240
 ttttccatga gcagagtagt acaatcgcat attaccatgg catgccatga tcaatcgtgc 300

atcacaaatca agccatagca taaaaatgta ctccgtcccg gtttccttca cttgaacatg 360
gagatgtcaa acacacgggc ggagccatct gatg 394

<210> 44606
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-G10

<400> 44606

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tctagggatt ctgctagatc ctcaaggccg ccacttggtc ctacgagaca gaagcagcct 120
cacggaagga acgcgccacc ttcaggccct tctagatgga ggctcaaagc cccacaaatc 180
cacaacaaag agaacattcc tgtgacgatg agcaaatcaa atcctgggga tgacactaat 240
aaggctgttg gcagagcaag gcgcgtttca cttactccgg tgattcgaca aatccccatc 300
cagcccaaga ggcggtcttc gatagcaata ctaccatctg tgagagagca tctttctgtg 360
ctaaa 365

<210> 44607
<211> 327
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-048-Q1-E1-G5

<400> 44607

atcaaggatc ccaccgtccc acacgcatcc gctctccgct tcccgtcccg atcgaactgc 60
tccctcccca acaccgagcc caatggggga caactcaacg acaacagatt gcccaattca 120
aagaggcctt cagcctcttc gacaaagaac gggatgggtg catcacgacc aangagctgg 180
gcactgtcat gcgctcgctg gggcaaaatc ctacagaggc tgagctccag gacatgatca 240
acgaggtcga tgctgatggc aacggcacca tcgatttccc agagtttctc aaccttatgg 300
ctcgcaagat gaaagacacc gactctg 327

<210> 44608
<211> 374

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-048-Q1-E1-G6

 <400> 44608

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 tgggtctgggt actactcgcc aaaggaccat atatcataat tggaaatgag caaggcaagc 120
 tgtanggaag atcactgcac aattatTTTT atattatcgt tcctataagg ttttgagaat 180
 ctgtgggttaa gttgtattgt aaagctagtt agtagcaaaa ttgtttataa ggctatttga 240
 gctcttatat cttcatacac atttaatttt tcgcagcttg tgaacattgg gaagcccaat 300
 taaatatttg aatctgcata gagtattggg aatagtcaat agtgggtgaac ttttgaatga 360
 ttcagttttg agac 374

<210> 44609
 <211> 275
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-048-Q1-E1-G7

 <400> 44609

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 gcgccggcgc tgaggctcgg gctctcancg acggcggcan cngcancggc ttcgcctccc 120
 gcctctctcc attctcctcg cgccctcgcc tccggctctc cgcacaccgg tcggttacct 180
 tgcgataatg gctcatcgtg gacatctatt atggactgaa tggtaaacct cctgctctta 240
 tacgccattg ggtcttttcgc tgcaatgagc ctctc 275

<210> 44610
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-048-Q1-E1-H1

 <400> 44610

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gaagccgcga gacggcggcg acggaaaggg ggcgccgcct ctgcagaagc acagcagcaa 120
 cgggtcttct tctccgctc ttccgagacc gtcgctgtac agacaccaat ggcggcctcg 180
 gaccagtacc cctgcccagc cctgcccgcg gaggacgggg gccctgcccc tgcagccgcc 240
 ggccggccca aggatcctgc ccccaactgca tctgctacaa cagccggcg 289

<210> 44611
 <211> 252
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-H10

<400> 44611

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 gaggggaggt gtcctacaaa ccccaaaaga ttagcccgaa attcaacaat accattaggg 180
 atttgctaca ccacaaaatt ccggattcct atatgcaccc tcagtttgtg tctcatctca 240
 tgaagccact gc 252

<210> 44612
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-D8

<400> 44612

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 ctgtaccagt tgtggacttc tctgcccagc atcaacccaa cgatcacgca gtggatcacc 120
 ggggtgtcatt cgagttgacc gtccaatatg tcgcgcgctg ccttgagaag aacactgcaa 180
 tctccgggga ttctggcaag gcatcattcc accttgacc gaacggcagc ggcgaccacc 240
 acagagaatc caacgaggca aaggcagggc tctacgtcga cgaatcatac catgacttgc 300
 ccgagaaaagc gacgcggtcc ctgtccctgc gcctgagcaa agagttcatt ttcaaca 357

<210> 44613
 <211> 97

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-H12

<400> 44613

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<210> 44614
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-H3

<400> 44614

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cttgccaaag ggatggacaa agctgaaaat gctccaattt caagctgttc tgctgggtgg 120

ttaacctcca aactacactg tgacaaattt catgaccttc tgccgccggc tgccaagggt 180

aagtgccttt ctgatgctgg gttcttcatt aatgaaaaaa acgttgcagg agttgggtac 240

attgctgcct ttttcaacga cgtcggttaca acacatgtac acattttttac ttcacacttt 300

gtggtactaa taatagatga atatcatgtg gggggtaatt gcaacacatc cagtacaaga 360

caacgagagg attcctacgc ctcagttcag ctgattaaat gaaac 405

<210> 44615
 <211> 120
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-B11

<400> 44615

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<210> 44616
 <211> 183
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-048-Q1-E1-B5

<400> 44616

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gtgtcggcac cggcgccccc gtctacctcg ccgctgtcct cgaatacctc gccgctgagg 120
ttctggagct cgccggtaat gctgccacgg acaacaagaa gactcgcatt attccgcgcc 180
acg 183

<210> 44617
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-B9

<400> 44617

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ggcgagcggc ctcccgtcc accggcgcg cctgggctgt gaagcagggt cggtcaccg 180
gcgtccccgc gcgcctccgc gacagcctcg actgcgaggt ccgcttcctc gccgccgtca 240
gccaccccaa catcatccgc ctcatcgacg tcgtccagac ccagagctgc ctttacctcg 300
tcctggagct ctgcgagggc ggggacctgg cggccttcat ccggcgcaat gggag 355

<210> 44618
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-C10

<400> 44618

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cagttgacat tgaatctgtc ctctgatgct cctagagctg tacccttgag gggcttgtgc 180
ttttgtgagc ttgtgttaaa cctgctgtac gagtaacta gtatgtccgc aaacgcgtca 240

gagccggatg tctgtgggcc agctattggg atactgccgg atatcgtaa caattgttcc 300
agattggtgt attggatcaa atgagattgt cagcaattgc ttgtttttat ggcttc 356

<210> 44619
<211> 197
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-C11

<400> 44619

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attcaatctt tctctgatg atcctacaac tgtaaccttg cagggcttat tcttttgta 180
acctgtgtta aaccctc 197

<210> 44620
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-C12

<400> 44620

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tgcccagcaa ctgtcgatga agggcttcgc gggcgacacg gccaaaggccc acgccaagac 180
gagcatgac gccggggagg gcgtgagcaa catccggacg gtggcggcgt tcaacgcgca 240
ggacaagatc ctgtccctct tctgcagcga gctgcgcgtg ccgcagatgc acagcctgcg 300
ccgcagccag atctccggcg cgctcttcgg gctctcccag ctctccctgt acgcgtccga 360
ggcgtcatc ctgtggttcg gcgcgcacct ggtccgcacc ca 402

<210> 44621
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-C4

<400> 44621

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ccgcgccgtt ggtggatgcg gcccacaagg cgcccgccga cgccccggcg ggcctgctg 180

ccgacgcgaa gccggccaag gccaagaagg ccaccgcgcc gaagaagcgc gccagcccga 240

cccacccgcc gtacgccgag atggtctcgg aggcgatcac gtcgctcaag gagaggacgg 300

ggtccagcag ctacgcgatt gccaagttcg tggaggacaa gcacaaggcc aagctcccgc 360

ccaacttccg caagcttctg aacgttcagc tcaagaagct 400

<210> 44622

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-048-Q1-E1-C6

<400> 44622

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gtcgccgccc tcgagcagtt caagatatcc gccgaccggt acatgaagga aaggagtacc 120

atagctgtga taggcctcag tgtacacaca gcaccagtgg agatgcgtga aaaacttgct 180

gttgacagagg aactgtggcc ccgtgctatt caagaactca ctagcctgaa ccatattgaa 240

gaggctgctg ttcttagtac ctgtaataga atggaaattt atgtggtggc gctatcatgg 300

aaccgtggta tcagagaagt agtggactgg atgtcgaaga aaagtggat tcccgcttcc 360

gagcttangg agcacctggt catcttgcca agcagtgatg cacacgccat ctggt 415

<210> 44623

<211> 285

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-048-Q1-E1-C8

<400> 44623

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gattctggta ctgaacaact tcacttcata gctctttcag agaggagggg ggatcccaat 120
 taccaacata acgtctaaaa acatcattaa acagcctcaa taaatatatc ccagtgatag 180
 tttacttctt atttacataa atcctcattc ctgggacagc atcataactca tctatcacat 240
 tttgtgctat gtcacacagc ttctaccaaa atttactcaa cgtct 285

<210> 44624
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-C9

<400> 44624

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 ggtcgggatg gcggcggcgc taactccggg ggtgtcccgg aagttgaaga atgtgctgga 180
 gacgcgtacg gataaccggg atctgctggc ctgcgtgggc gcgctctcca ctttctacgt 240
 ccagaacacc ccgcaggcgc gccgcaatct caaatcctcc attgagcagc gtgcacttgc 300
 catcaatcgc cacttcttcg aaccctcgt ccccgcccac aaagcgctgg atcg 354

<210> 44625
 <211> 366
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-048-Q1-E1-D1

<400> 44625

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 accccaactc gcccgcacg gatggcgccc aaggccgaga agaaaccgc ggccaanaag 120
 ccggcggagg aggagcccgc ggccgagaag gcgcccgcg ggaagaagcc gaaggcggag 180
 aagcgggtcc ccgctggcaa gtccgctgcc aaggaaggcg gcganggcaa nanggggaan 240
 aagaagggca agaagagcgt ggagacctac aagatctaca tcttcaaggt gctgaagcan 300
 gtgcaccggg acattggcat ctctccaag gccatgtcca tcatgaactc cttcattaac 360
 gatatc 366

<210> 44626
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-048-Q1-E1-D12

<400> 44626

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gttgggtcaag gcaacttgaa acttcaatat aatgaagctg gaaaattatc cctgtactcc 120
gatagtaaga ctatggttca agcaaacttt gagcagaaat acaagtatta tattggacag 180
gatggaaatg gaagtgatcc tcaggcttct ggagcataca tattccgccc taatggcaca 240
gttccaatca gtactgatgg gcaggtttct ctacagttc tgcgtgggcc catattggat 300
gaagtgcnac agcagataaa ttcatggatt tatcagatta ccagggttta caaggagaag 360
gacttttttg aaactgaatt tatagttggg cccaatacag tagatga 407

<210> 44627
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-D2

<400> 44627

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atagagactt caatcaactc catacgtata aacatgaagg ttaagcaggc agatgaattg 120
gagaacattc ttgccaagaa gttccttaag tttttgtcaa tgagggcaga ggcattccaa 180
gtgttgagga gaaaaccggt tcaagtttcc aacttaacat tgattacctt gagcagtgtt 240
ttatgtctcc aataggtcct agtaaactg aactacctgt aaggcacagg gatacatcgt 300
tgtggacaac tggatgatgg a 321

<210> 44628
<211> 366
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-048-Q1-E1-D4

<400> 44628

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cgcgccgctg gcgacgtcgt ctcgttcccc gcgaccgtcg ccgccttcgt ggaggcgctg 120
ctccagggct gggccgagggc canggccggg ctgctggtgc cgctgctccg cgccgcggtg 180
ctgctgtgca cggccatgtc gctgatcgtg ctggccgaga aggtgttcct gggcgcggtc 240
agctccgtgg cgaagctgcg gcgcccggcg ccggggcggg tgtacaggtg cgaccccgac 300
gaagaggcgg atgcggcctc ctgngcctat cccatggtgc tcgtccagat ccccatgtac 360
aacgag 366

<210> 44629
<211> 366
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-048-Q1-E1-D6

<400> 44629

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agcccaatcg ttaccgaccc gattcggaag gaggggttgtt gcctcacccc ctctgggttcc 180
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ctcccgcagc gtcgactgct tcgagaagct cgagcagatc ggcgagggca cttaccggca 300
agtgtacatg gcgaaggaga cgggcaccaa cgagatcgtc tcgtcaaga agatccgcat 360
ggacaa 366

<210> 44630
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-048-Q1-E1-B10

<400> 44630

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 ggacgtgggt gtggcgancg gtctcccggt ccaccggcgc gcccggtggt gtgaagcagg 180
 tgcggctcac cggcgctccc gcgcgcctcc gcgacagcct cgactgcgag gtccgcttcc 240
 tcgccgccgt cagccacccc aacatcatcc gctcatcga cgtcgtccag acccacagct 300
 gcctttacct cgtcctggag ctctgccagg gcggggacct ggcggccttc atccggccca 360
 atgggagcct taactagcgc ctggccagaa attttatgaa acagatggga gctggcttac 420
 aagtgtgca ccggcagcat gtcctccacc ggg 453

<210> 44631

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-D7

<400> 44631

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 gccgcctagc tcgttggcag cagcgccggg cgcccccg gccggcctgg tccgggggtac 120
 aggggcagta agaaactttt gcagaacaag agagagacc t gatagtttt tgctctcggt 180
 cagtcgttct ctctcttct ctctctcaca cacagaaaca cacgcagaat ggcaggagag 240
 agagagagag agagatagaa agggatgtat gaaagatcta gcaagaagta ttcttcgtta 300
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<210> 44632

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-G10

<400> 44632

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 cattatctca ctttttaacc cactgatcaa cttacactat ccacatataa cacactatct 180

aataacaaaa actctaccca acttcactac taatcattct aaacttgta attacataac 240
atactacatc actatcaact aatacacatt c 271

<210> 44633
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-G2

<400> 44633

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tctccctcgt cttccttccc acgagctcgc accagcctct gttcctgct cggcatggcg 180
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gcttagcttg cctctcttgc gcgcagctct ttgttctgct gtgccacaat cctccagctt 360
ggttgccc 368

<210> 44634
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-G3

<400> 44634

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ttcccccttc gtttgcctaa aaaatcaatt gtacaggcga aactgcttgt ttgtgctttg 180
tttcttccgt gtttgtttcc ttgggatttt cctctggtcc gttcttcttc acctgtgggg 240
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gtactccgct gtggcggaat gggccaccag ataagccggt gctctgcaat gcgtgtggct 360
cgagggtggag aacgaagggt tcaatggcaa actacactcc aatgcatcgc aatgacaata 420
ttgatgatg 429

<210> 44635
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-047-Q1-K1-G4

 <400> 44635

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ccaaagttag acaaacttta ctgttttctg ctacacaaac gaagtcagtt aaggaccttg  180
caagggttag cttaagggat cctgaatata taagtgtgca cgaggaggcc agaacagcca  240
caccggatac ctttgagcag tatgccatga ttgtacctct tgagcagaag ttaaatatgc  300
tctggagctt cattaanagg catctaaatt caaagacgat agtcttctta tctagtgtca  360
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<210> 44636
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-047-Q1-K1-G5

 <400> 44636

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gggtggggca tgaatgatag aggggtctca tatacctttg gtgctgacaa ggtttcagaa  180
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gaatttgata atgctggtgc aatgatgagt gtccatgaaa ctttgaagtg ctcaccccaa  360
attctgaaac ctgctgagag aaaaacaaat ttatgggggtc caacaaaatg           410
  
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<210> 44637
 <211> 356
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-G6

<400> 44637

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gaatgcaata attagaaatt gactggtttg ttaaaccatt tatatcccta cactataatg 180

acataacgca aactataatt tagatcatgc tggacagatc tcactatcta gcaatcgaca 240

ctaatagaact tcttatcata cgacatctgg acatacgatt acacgatatc cttctattaa 300

tattcaaatg atgactcatc ttccattcaa aatttacatt gatactttga atttac 356

<210> 44638

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-G7

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gcactttatg aggtcaacc atcataactt catcaatgaa atccagactc acgattcaaa 120

gaatgcaata cgttacaatt gcctcgtttc ttgaaccatt gagctaccta cactataatg 180

acataacaca tactatagct tagatcatgc tggacagtgt cactatctag taatcgacac 240

taattaactt catatctgac gacattggta cat 273

<210> 44639

<211> 141

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-H11

<400> 44639

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ggattcatct catgagctac gtttatcatg aagatgttga catgtccatc cttgtcttgc 120

tcgactcttt tatttcgact c 141

<210> 44640
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-H2

<400> 44640

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ctccacaacg ctgctggcat cactgcgga ctcagccacc aagccctgac attgtagcca 180
gtttcctgca attagaacga atgccagttg gtaaccattt aacatttctt ttgctgtgtc 240
aacttattgg agttggagag aggtatcac tatactaacc tttatatcat caggattgac 300
ataaatgtga ttacacgta gatacaagtt tgtggcagag attgctctga cacaccaatc 360
agtcttcgat g 371

<210> 44641
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-H3

<400> 44641

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ccaagaacct ctacatcatc tccgtcaagg gcatcaaggg ccgcctcaac cgctcccg 180
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agaaagtgat gcccgcgctc atcgtccgcc agcgcaagcc gtggcgctgc aaggacggtg 300
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gttctgcaat cactggacct atc 383

<210> 44642
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-H4

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ggaatgaaat ataagctgtg caccatatat agttctagtt cgctctgatt tagtcaggcc 180
aagtgtagtt tggtagccgg atagtctatg cttggaaact atttattgtg attgtgataa 240
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<210> 44643

<211> 396

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-047-Q1-K1-H5

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gtcgtcgtcg gcggagaacg accccacggt gacggtgacc gagcgcgagg gcaaggacaa 180
gcacgaggac ggcggcgaca aggagcaggg cggcggcggc ttcacgcaca aggtgaagga 240
cttcatccac gacatcggcg agaagatcgn agaggtcgtc gggttcggca agcccacggc 300
cgacgtgtgc ggcacccaca tcccgcacat cagccttcac cgggccgacc tcgtcgtgga 360
cgtgctcatc aagaaccga acccggtccc gatccc 396

<210> 44644

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-H6

<400> 44644

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tgatgaacaa tcctgccaac ttgctaagc accaagcgaa tcctaagggtg ggccctatca 180

tcgcaaagat gatggccaag ttcaatgggt cccagtgatg gttatgtcgc agtcaggttt 240
 tgtgagcagc aagcaaaggt ttgttggaca gtgaacaggt gttcttttcg tgcattctggt 300
 ctgggagtggt gtttagcttg tgatgaagaa catgagtgtg tgtgttggtc gtggtgcatc 360
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<210> 44645
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-H7

<400> 44645

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 acgaccggat gcgggagacc tgtgcgctgc tgaagcaggt gcgggagccg ggcgctcggg 120
 gctcttatct caaggactcg gagaagcagg agatgtaccg gctgcacaag gaggacccccg 180
 cgacttacac cgtggagcgg ctgcgaagg acttccgtgt catgcgacag cgcgtgcacg 240
 ccattcctctg gctcaaggag atggaagagg aagaggagag gaagaggggc cagccgctcg 300
 acgactccat cgaaatcctg ctgcacagct gccagagtt cttcaattct catgacaggg 360
 gaatttcattg tagcatctct tccatataaa cctgacttca aagtaatgcc tgaggac 417

<210> 44646
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-A12

<400> 44646

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 gccatgctta aggatggact ttgggatgta tacaatgact gtgccatggg aatgtgtgcc 120
 gaactttgtg ctgacaatca tgccctcaca agagaagacc aggatgcttt tgctatccaa 180
 agcaaccagc gtggaattgc tgctcgtgac agtgggtgctt ttgcatggga gattgttccg 240
 attgaagttt ctgttgggag aggaaaacca cctgtactta ttgagaaaga tgaaagcctg 300
 gataagtttg acccagcaaa actgaagaaa cttcgcccaa gtttcaagga gaatggtggt 360

accgttacag ctggaaatgc ttctagtata agtgatgggg cggtgcatt atttttggtg 420
ag 422

<210> 44647
<211> 345
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-048-Q1-E1-A5

<400> 44647

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aagtgcact acctagccta tagcaaggct acctttctca ggaggtgctg cagtgcagggt 120
taccacaaaa ctagtgacga cgcggctagt ttctacgttg tatatagttc ttgctgcaga 180
ccgcgtttgt gtttacgaaa gatttcactt ttaagtttcc tgtgttaact ataattgtat 240
gatttgccgg ctctggccgg cccggaatac taaatgggca gtgctattcg ggccagcccg 300
gcacgatctg gcctccaccg tgccgtgctc gggttataat ctggg 345

<210> 44648
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-048-Q1-E1-A6

<400> 44648

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aactcggacc tccggaagct tgcggtcaaa ctgattccct tccccgcct ccattttcttc 120
atggtcggct tcgcgccgct gacgtcaagg ggggtcccaac aataacgcgc cctgaacgctc 180
ccggagctga accaacaaat gtgggacgcg aagaacatga tgtgcgccgc tgaaccgcgg 240
caacggcgct acctgacggc gtcggccatg ttccgcggga agatgagcac caaagagggtg 300
gacgagcaga tgctgaacgt gcagaacaag aactcgtcct acttcgtgga gtggattccg 360
aacaacgtga agtcgagcgt gtgcgacatc cccc 394

<210> 44649

<211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-047-Q1-K1-G1

 <400> 44649

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 gcagcaggtg ttggaccaat ttgttggaca agagatcggt gactgggtgtg ggagcgctgc 120
 aggagaaaac aaagggggga taatgtgtca tccagatgga cccaaccaa gaaatagaat 180
 ggaataaaat taaaggcggt gaacgagaaa aaaatgcatc aaattattga catcaaaata 240
 aataccggtt cgtcatggct gacacaacta gtgaggaacc tgccacaagt gaacagacaa 300
 agattgaagg gctgattttt ttgaaactag tgtgggtgtg gaaaaacggt attatttt 358

<210> 44650
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-047-Q1-K1-C9

 <400> 44650

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 ttccaattct tgctcgcttc gaatatcacc tgagatcaca taaacaatgc tgaatgctgt 120
 tactgagctt aatagcagcg atgggtgtcaa tgccaccatc tttttcaccc aagatgtaca 180
 tgcccctacc gctgtcaccg taagtgtctc tgtcctcaag cctgtcctcc atggatttca 240
 tgtacatgca cttgatgaca ccaccaatgg atgcatgtca actggaccac actacaatcc 300
 tt 302

<210> 44651
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-047-Q1-K1-D12

 <400> 44651

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catttcgttg ttgagatcga gtcgctcggt gacgggaccg atttctcgga gccgctgacc 120
 cgtgccaggt ttgaggagct gaacaacgac ctcttccgca agaccatggt ccctgtcaag 180
 aaggccatgg atgatgctgg ccttgagaag agccagatcc acgagatcgt cctggttggg 240
 ggaagcacca ggattcccaa ggtccatcag ctctgcggg actacttcga cggcaaggag 300
 cccaacaagg gtgtcaaccc tgatgaggct tttgcctttg gtgccgcttt gc 352

<210> 44652

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-D2

<400> 44652

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 gcgcaaggcg aaggttgagt tcgacgagca gccgccgat aacttcgacc cgaagaaccc 120
 gtatgccgac ccggtggcga tgctcgagta ccgggaacac ctggtgcgag agaagtggat 180
 ccagatcgag accgccaaga tcatccggga gcgcctccgc tgggtgctacc gcatcgaggg 240
 catcaaccac caccagaagt gccgccacct cgtcgaccaa tacctagagg ctaccgcggg 300
 cgtgggttgg ggcaaggatg cccgcccgcc tgaactccac gagccaaga agaccgtcaa 360
 ggcgag 367

<210> 44653

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-047-Q1-K1-D3

<400> 44653

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 gcgcgacaac atccagggca tcacgaagcc ggcgatccgt aggctggcca ggaggggagg 180
 cgtcaagcgc atttctgggc tcattctacga ggagaccgc gccgtgtctc agatcttctt 240
 cgagaacgct atccgcgacg ccgtcaccta caccgagcac gcccgccgca agaccgtcac 300

cgccatggat gtcgtctacg cgctcaagcg ccagggccgc acgctctacg gcttcggcgg 360
ctagggccgnc ttcccttctg atgctttgat gtgacggcgg tggtcggttg tgtgtcta 418

<210> 44654
<211> 210
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-D5

<400> 44654

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gcaccttata cgtgtagata tcgattccct atttgactgg accgatttct cgcatacctt 120
tactcgtgcc agctttgatg agcctaacaa ccacctatct ctcaagacca tgtacccttt 180
caagaaggta atgaacgatg ctgtccttga 210

<210> 44655
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-D6

<400> 44655

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gtagtgcagg ctttgagctc tcttgtaaat actcttcaag agagaaagga tccagaacag 120
cctgctgaaa aggaccattc ggacgcagtt tcccagattt ctgaaattaa cacagcattg 180
gattctctgt ggttggagtt gagcaactgc ataagcaaga tagaaagctc ttcagagtat 240
gcatcaaata taagtccctg ttctgcaagt gcagctatgt taacaacagg agtagcacct 300
ccattgcctg caggaaactca aaacttatta ccatatatag aatcattttt tgtgacatgt 360
gagaagttgc gtccctgggca acctgatgct gtacaagatg cttcaacttc tgatatgga 419

<210> 44656
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-D7

<400> 44656

cacacggcca tctcacagac cgacaacgcc ctatgcaagc agcaagcgca cacgtaaacg 60
ggacacctac ctcggcgagc aaaagggaaa acgctgatcg gagcagcgaa gcccgagcc 120
atgccgacgg cgacggccac ggccacggca gctcctcgcc acgcgggcgt cttactgccc 180
ctgctgctgc tctgctcgg cctccacgcc acgtccgccg gcgcgcgcgc cgcgggcgtc 240
gccgtggacg ccgagctcac gttcaccaag cegtaccgg tcccgaagaa gcccagcgtg 300
aagccgtccg ggcacggagc cgcgagcccc acctttctgg acttcggcat cc 352

<210> 44657

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-D8

<400> 44657

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gcactttacc ctttcagcaa gattgtctat cctgatcaag acagcaataa cccaaatcat 120
gccgatgaca acgaccattg acacgcaaat tcttagattc ccgaaactca cactgccttt 180
gattctgttc ctgctcagct tacacactac gtacaccttc tccaaacgct cttacattat 240
ccattacacc taactcatgt ttattaaaca gcaccttttt caacaacagc cttatcacia 300
tccattctat cacgaactca aaacttatta ctatatatac tattattatc c 351

<210> 44658

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-047-Q1-K1-E1

<400> 44658

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ttcccttctg cctcctcggc atcctctgcg ccttcgtcgg cgcggtgga ggcagtgggtg 120
ccgaccagca aaagcaacgg agggaggggt aaaacctttc gttttgaagc aagggatgag 180

cgcgaaagcc gttgcgcttn cgtacacgcg catactcttg ctccgtcgcg cgttagggtta 240
 ggtagtagtact tagtacttaa cttagtagtaa taacgcgcag ccgttttggg cggacacggt 300
 tctctaaagg cgaagactct gaagtgggcg aacaactcgc ccagcgggcg aacattgccg 360
 ctccggcttc gcgcacctgc tgacaccttt cgaagcactt tcacgtgtga accgaagtcg 420
 tctt 424

<210> 44659
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-047-Q1-K1-E10
 <400> 44659

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 gcaccatttc ggtgttgaga tcgagtcctt ctttgacggg accgatttct cggagccgct 120
 gacccgtgcc aggtttgagg agctgaacaa cgacctcttc cgcaagacca tgggccctgt 180
 caagaaggcc atggaggatg ctggccttga gaagagccag atccacgaga tcgtcctggt 240
 tgggtggaagc accaggattc ccaagggtcca gcagctcctg cgggactact tcgacggcaa 300
 ggagcccaac aaggggtgtca accctgatga ggctgttgcc tttggtgccg ctgtgcatgg 360
 aagcatcttg agcggcgagg gttgtgacta gaccaagata tccttcttct tgatgtggc 419

<210> 44660
 <211> 269
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-047-Q1-K1-E5
 <400> 44660

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 gtggtattta gccacctcca gggaacaaga agaatgacgt ttgctcttgc aggcattgctc 120
 tacggaaagc tcaaagccag ctgcatcatc aaattataag gatagagaat ctcgagctta 180
 tgctgaaata tgaccaacat gattggaagc tccataacag acaaatggaa tcaaacttga 240
 ctatgattca aaagaaggct tgtataata 269

<210> 44661
 <211> 212
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-047-Q1-K1-E6

 <400> 44661

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 acttttggag ccacctccag ggaacaatat tattgatgtt tgctcttgca tccatgctct 120
 acgtaatgct catatccagt tgtatcatta tatcatactg atacattatc tagagcatat 180
 tctataatat atcttaaatac tttgtaaact tc 212

<210> 44662
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-047-Q1-K1-E7

 <400> 44662

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 ccgctactcc ggtgtctttc cctcctctct ccgtcgccctt ccccttacgg gctgcccata 120
 tttcattcag tgccaacaag tgccaagtgc tcgtgtccgg atgcgccagc gccgcctggt 180
 caacagatth ttgccctgcg ctgtcactcc accacgctgc ttgtactgaa agctttttcc 240
 cagaataaaag gctggggagg aggaagcggc ggcgggggcg ctcagaagag agggtgagat 300
 gaagactcgg agctcagcga gaggggagcc gaggcgtctc ggaaatgcgg ctcttctggtc 360
 gctcatgctc tgctccgtcg tcgcgctctc cctcatccgg gggagattcg cccaattgt 420
 cactaccgca ggagatg 437

<210> 44663
 <211> 180
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-047-Q1-K1-F11

 <400> 44663

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 gttctctctc tactttaacc ccacctcat gtccatcctc aaattcacat catccaatac 180

<210> 44664
 <211> 271
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-F12

<400> 44664

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 atcttctcta tctcaatcat gcttttcaag aactataact gcatcaatca atcacactat 180
 aactcaatcc acttttaaatt gcatactttc tacattaaca atgtctacat ttcactttac 240
 tttacaatat tttctcattt attcactcct t 271

<210> 44665
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-F5

<400> 44665

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 taactaaaag acatacttgg ttacactttc cgtcacgttg tacaatttat catctctcgc 180
 gcacgcatgc tttgcaagcg caataactcc gacaaccatg cccacgacaa cttgatccac 240
 tgtaagttcc atacctacat gattaacgag ttctagctct tactcccctg cacaagcatt 300
 tcgc 304

<210> 44666
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-F6

<400> 44666

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atagtatcgc aaagccctga gcaagactta catgtccagc accaaggcgg ctatccaggt 120
taactaaaac actcacttgg ttacactgcc catcacactg aacaattcat catctctcat 180
gtacgcatgc ttctcaacaa caataactcc aacaagcagt cccacgacaa cataatctac 240
ctgaactacc atatcttcat cattaacgtg ttctatcagt tactcc 286

<210> 44667

<211> 234

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-047-Q1-K1-F8

<400> 44667

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tcgccttccc attacgggct tcccatatct cattcagtag caacaagtag caactgctcg 180
tatacggatg ctccagcacc tcctggacaa cagattattg cctactctt tcac 234

<210> 44668

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-C8

<400> 44668

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gcgagcaccg tgacctgtct gattctctct ctccctact agtcttctgc aatcaagcca 120
caacaaatgt gaccgtctct gtttctatca tccccttcat cactctgctg gtctccctca 180
ttcacctctg gtcttaggcc atggccttca gcgcctaccg gctcatcaag tgcgtcacag 240
agggagacgg cgccgtgtta aagacctgca tgctcatctg ctacaccagc agcaagatcc 300
ccactgatta cataccaact gtcttcata actctagtgc aaacgtggta ctcgacgata 360

ccacggtgaa tcagggcctt cgagatactg cagggcacga agattacaac agactg 416

<210> 44669

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-047-Q1-K1-A6

<400> 44669

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ccacgcaccc gctcgagcac tcttggacct tctggttcga caaccgcag agcaagtcca 240

agcaggccgc ctgggggagc tccatccgcc ccatacacac cttctgcacc gtcgaggaat 300

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<210> 44670

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-B1

<400> 44670

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gaacgtatag ggcttgcgca acgccagccg gacgatccac atgatgttgt tcctcgaagc 240

agggcaaggg cgccgcattc gatgcgacga gcggtgcagtc tgacgtcgcc gcgtagaccc 300

agccctgact ggaagattac gaaactgcta tctgcgtgcc gcagcctcag atttcggaat 360

tgtcattc 368

<210> 44671

<211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-047-Q1-K1-B11

 <400> 44671

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 gctgtcgtc tgcttattag cagcaatcgc ttcaagatca ccatcttttt cacccaacag 180
 ggagatggcc ctactctctg tcaccggaaa cgtctctggc' ctaaattcctg gcctccatag 240
 gctccatgta catgcacttg gtgacaccac caatggaagc atgtcaactg gaccacacta 300
 ca 302

<210> 44672
 <211> 245
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-047-Q1-K1-B2

 <400> 44672

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 ttatgaagtt gaatttgtaa acagtgatat catgttgcca tcacggagtg atgcatacct 180
 gaagattgat gattctaaga ttactgctt tttcaattta tgaactctct gatggtaatt 240
 ctatt 245

<210> 44673
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-047-Q1-K1-B4

 <400> 44673

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cttcatggtc ggcttcgcgc cgctgacgtc aaggggggtcc cagcagtacc gcgccctgac 180
 cgtcccgag ctgaccagc agatgtggga cgcgaagaac atgatgtgcg cggctgaccc 240
 gcggcacggg cgctacctga cggcgtcggc catgttcgcg gggaagatga gcaccaagga 300
 ggtggacgag cagatgctga acgtgcataa cangaactcg tcctacttcg tggagtggat 360
 cccgaacaac gtgaagtcga gcgtgtgcga cattcccccc acgggcctgg cgatggcgtn 420
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<210> 44674
 <211> 331
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-047-Q1-K1-B5
 <400> 44674

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 acaaatctaa ataaattggc accaaaatta tgtacttgca gtgtgtctat ttaccattca 180
 ctcaattact cagccaata ataaggatgc aatttttgag cataactcaa ctcatcatct 240
 acctacctac cttttgcatt tcaccgtggc tcgtgcgcta caacttgtct cttcatgttc 300
 atcttgccgc cttatgaccc tttcaccacc t 331

<210> 44675
 <211> 379
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-047-Q1-K1-B6
 <400> 44675

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 cagtgatatc aggtggccat cacggtggga tgcatacctg aagatggagg gttcgaagat 180
 tcactggttt tcaattatga actctttgat ggtaattcta tttttggctg gcattgtatt 240
 tgtcatattc ttgcgtacag tgaggaggga cttgactcgg tatgaggagt tggataagga 300

ggcccaagct cagatgaatg aggagctctc tggttggaag cttggtgttg gagatgtctt 360
cagagaacca accttaccg 379

<210> 44676
<211> 377
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-047-Q1-K1-B8

<400> 44676

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gcgccttccc attcttcttc gccgcggggg tcgcctgaga tcacataaac aatggtgaag 120
gctgttgctg tgcttggttag cagcgatggt gtcaagggca ccatcttttt cacccaagag 180
ggagatggcc ctaccgctgt caccggaagt gtctctggcc tcaagcctgg cctccatggg 240
ttccatgtac atgcacttgg tgacaccacc aatggatgca tgtcaactgg accacactac 300
aatcctgcga gcaaggagca tggggcacca gatgatgaga accgncatgc tggatgatctt 360
ggaaacgtga caagctg 377

<210> 44677
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-B9

<400> 44677

ttaatcgtca tttcgtgaag tttgattcat cgattatcaa ggttccttat cgagactttt 60
aaatccctgc acgatctcaa cttgtaacac tttctactgt tgaacggatt attatgcat 120
ctgtttatga tctgcattct cttcaacatg aacttaataa agtctatcct cataatgcct 180
aatctatcta tcaattttta ctgaacttta catctcttgg atcaagatat tcttcattca 240
cttttattct tgattatcct tcatgaaaca tctttatcta aaatccgcat tctccgcttt 300
tatatcctat actatct 317

<210> 44678

<211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-047-Q1-K1-C11

 <400> 44678

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 gacaacatcc atacgagact cttagactat taccaatacc tgtcaaattc tatatcatcc 120
 ctactactct tctacaacaa tccacaacaa atctgaccta ctctgcttct ctcatcccct 180
 tcatcactct tcttatctcc ctattccatc tctattctag gccatgacca tcaactccta 240
 ccgactcatc aagttcttca cagttttata cttcacgcta taaaatacca tcatttctcat 300
 attctacacc atcaacaat 319

<210> 44679
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-047-Q1-K1-C2

 <400> 44679

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 tcttgaggtt cctcttcttc gagcagctcc agctgcggag ctccatcgcg gaatgcctca 180
 tgatctcaga gccctagac ggcggctgcg gtggcttctc gcggcagctc ggcggcctgc 240
 ctgtctcggg cgagcacctt cgtggcgctg gctggcccct ggccgccagg gagaaccaga 300
 cgctgcggga aggcattggac agcatgaatc agcgcgtgtc ggatctggag aaggagtgtc 360
 ttgccatgaa ngacgacatc gagcggctcg ggccgaacat gagcgcgggc cagagcaggt 420
 tcccg 426

<210> 44680
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-047-Q1-K1-C3

<400> 44680

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gcgagcaccg tgacctctct gtttctctct cttcccttct cgtcttctgc aagaagccac 120
aacaaatgtg accgtctctg tttctctcat ccccttcata actctgctgg tctccctctt 180
ccacctctgg tcttgcccat ggctccagc gcctcccggt tcatcaagtg cgtcacagtg 240
ggggacggcg ccgtgggaaa gacctgcatg ctcatctgct acaccagcaa caagttcccc 300
actgattaca taccactgt cttcgataac ttcagtgc aaagtggtagt cgacgggtacc 360
acggtgaatt tgggcctttg ggatactgca gggcaggaag attacaacag actgaggcca 420
ctgagcta 428

<210> 44681

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-C4

<400> 44681

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cgcgagttct tcctcctgtg ccgcatgggg ctctctgtgg agaagacctg gtctggacgg 120
gagtacaagg tcaaggatct ctgcagggc gacttcggtc gcctcgagat tgagctggcc 180
gaggtcgaaa tgcccgccct catggcgtgc cgcgccgagt tcggcccgtc caagcccttc 240
gccggcgcta ggatctcggg gtctcttcac atgaccatcc agaccgtcgt cctcatcgag 300
accctcaccg cgctcggcgc cgaggtccga tgggtgtcct gcaacatctt ctccacgcag 360
gaccacgccg tcgtcgtcat cgcgcgcgac ttggtcggcc ggttcgcctg gaaggtggag 420
acccttgagg agtactggtg gtgca 445

<210> 44682

<211> 354

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-047-Q1-K1-C5

<400> 44682

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ccgaacaacc ataagccctc caagatcaca agaggagggc ggcaagctcc agcctgccta 120
ccagagcgcc gtcgtcgccg cagactcctg cgccaagagc tatctgaagg gtgccgctag 180
tatcagtagt gtttccaggc gtaccatcaa gggggataat ggccgaaagg agaagggatc 240
tccgaggctg tgaaagaggt ggcgcanget cgtgacctgt taggcaaaag aggtagcaac 300
ggcgccaatg cgactgcaac gtgagatgtc ttagtcatca cgattcaac aatg 354

<210> 44683

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-A5

<400> 44683

ggcgctcggt gtcgtcggt actacgcact cctctggggc gtcgccgtac tcaacctcct 60
gtggtgcttc ctgcaggcat ggcaatgtat gcctgacagg gcattctctt ggaatgtact 120
gtcactgttt aaaaaatcag gaatgttatt cttggaagta agtctcatag cctttctact 180
tcaaggaaat gatgccagcg gttttgaatc tttggcacgg acctttgtta tatctggagc 240
tgtagttgct gctgatgtat tgctcaagac tatatatgtt tttggcttcg gtgttccttt 300
gttcattgat actgatcaag gaactagtgg gaaatggggc ctgtggattc tccacaaact 360
tgtgcttact ggagtctatg ggctgattgt tttcatgcat cattcaagat ggagagac 418

<210> 44684

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-C6

<400> 44684

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gcgatctccg tgaccagtct gattctctat cttcccttct agacttctgc aacaagccac 120
aacagatgtg accgccactg ttactctcat ccccttcate actctgctgg tctacctctt 180

gcacctctgg tcttggccat ggcttacagc gctgcccga tcatcaagtg cgtcacagtg 240
gcagacagcg ccgttcaaaa gacctgcatg ctcatctgct acaccagcag caagttacca 300
actgattaca tacgactg 319

<210> 44685
<211> 359
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-046-Q1-K1-G12

<400> 44685

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tgggttcggt ccaattgaga aggggcagag ggagtaaagc angttaggtc cgtttgcgtt 120
ttcttttgcg gggtttgtagg tcaaaagctc cgcgagcact ttccgctcca cctcctcacg 180
ctcggaatca aatcgatgcc ccctgtgat ttggttctctg gtatcggcgc atgagcttgc 240
tccaagagat ctcccttttg gttcggcgtc aggggttctg tgaggtcacg cggcttcttc 300
ctcttggcgc tcttcacatg tccgggcgct tcgatctctg cccactgcgc gagtgattc 359

<210> 44686
<211> 320
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-046-Q1-K1-G2

<400> 44686

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tggttgtgta ctaacttggc ttctaaaagg ggctgaaacc tcaccggagg cggcagcggc 120
gtctacgcta gggtttcggc gtgaggatcg cctatgacga ctgctttcag acgtcccttc 180
cgaggccgcy gcgccatgcc ctccggcacc cgctacctcc gccgaggctc cgccccaggc 240
tccaacgacg tcgtcaagcc cctgttcaag accgtcttta ccaccgtcga ccaagatcac 300
ccccagacac acagagacac 320

<210> 44687

<211> 186
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-046-Q1-K1-G3

 <400> 44687

 ggacgaccca cgccggcgca aaaacnccag ccgctccacc ttcttcaatt tcttcttct 60
 acaaagagga anccccntg aacagtggca ctttaaaatt tggcggggac ataacacact 120
 cactgggcta ctgcttcntc ancttttttt tttttttttt tcttccccca cccaaactac 180
 caaccg 186

<210> 44688
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-046-Q1-K1-G5

 <400> 44688

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 ctatggtgac gtactggttg agtctattga tgcactggtg agtatcgcta ttcattttaa 120
 atttcttgta ttagctaaaa ggtctttgaa aacatctttc tgtcaactgc tgcattcaca 180
 gctagtgcag ctgtttctaa aggcttcaca agataagcgt tttgtctgtg aagctgctga 240
 ggcagctctt acatcgatga caagttggat ctccccatta ctactgttac caagaatgca 300
 gccctacctc aagaacagga atccgcgggt tcgagcaaaa gcatcagtggt gtttgagcaa 360
 gagtgtacct tgcttagatg tgcanggaat cagagaatat ggaatggat 409

<210> 44689
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-046-Q1-K1-G6

 <400> 44689

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gctagcttat cagaaagcag ttgatgatgg cgcanatgtc attgattgcc ccgttcaagt 120
gaccaaagac ggaataccaa tatgcatgag ttccattgac ctgatgaacg atactactgt 180
tgcaagatca caatttatct ctcagactgc cagcataaag gatattcaga ttgcacaagg 240
ggtttttact tttaatctca cctgggatga cattgtaaac aacctgcagc ccaaaatatt 300
caccatgg tactccttca gattggaccg aaatccgaga tataagaatg caggaaagtt 360
catg 364

<210> 44690
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-G8

<400> 44690
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gttccccgcg tacacacgag gggactatcg acacgactat tcacaccctg agtcgctcct 120
tgactcgata ctggaccata aacagcacca ctagctgctt cactgggtcc ttccggaagc 180
cccgccagga ctgggtgccc ctccacgtga ccgtcaccgg caccggcacc tgcaccggag 240
ggaactcacg 250

<210> 44691
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-G9

<400> 44691
tgttggtttt taaatttttt ttttttttga ctcaaagcag ctcgatgtca ttatctcaga 60
agacagtagc tgtgggaacg caatgcgagg cgcagggacc ggacagacac tgctgctacg 120
actacgagta ggaagaaagc gagaagaata aaagcgagcg aggaaaggga tggcgggggc 180
accactgccc ggccggcagc gggcagcctt tggatcagaa ctacagtggc aggcgacctc 240
ctctctctc tctctttctt tctgaaaaaa aaataatgca gatcttccgc aagttcccaa 300
gacgactggc gacaatgacc caccatgagc acagcaaagc atttcaccgg tttctttctt 360

tttgggttcc t

371

<210> 44692
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-H1

<400> 44692

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taaatacaca gtaccaggag agactatgaa cacttagagc tcggcaagcg aactatagag 120
atgagttcct gcgcaaggaa tctctagcac gccagcagca ataccagcac gccagcatga 180
gccattatgc cagcaattcc acggctgggg agcagcatgg ttataaccga acggcagcag 240
gcacgcctcc tgttgctgct ggaggtgctt atggtgaggc tcacgggggt tatgcttctg 300
gccagtatga atcatttagc gat 323

<210> 44693
<211> 335
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-046-Q1-K1-H11

<400> 44693

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gatggcccc agggccgggt ggatttccgc ggcgaggaag cctntnnaag aagaccccg 120
ggccgagaag acgaccgccg ggaagaagcc caaggcggag aagcgggtcc ccgctggcaa 180
gtccgccggc aaggagggcg gctagggcaa gcgttgcaag aagaaggga agaagagcgt 240
ggagacgtac aagatctaca tcttcaaagt gctgaagcag gtgcacccgg acatctgcat 300
ctctccaaa gccatgttca tcatgaactc ctcta 335

<210> 44694
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-H2

<400> 44694

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ccctccatct cctcggcgct gcctctcggt tctgtgggga atgggtcaaga tgagccgtgg 120
tggtagtgcc ggtgggtggc aaagttctct ggggttatctc tttggaagcg gtgagcccc 180
caaaccagca gtggcaccag ctgcaagtgc tccacctgtt gagaaacct ctgctgcaaa 240
gactgatg 248

<210> 44695

<211> 245

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-046-Q1-K1-H7

<400> 44695

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ttcatttaaa aaggcaacga caaaaaaaca ctttttttat tactacaata tnaaaaaatc 120
tatacaaaat aattttctta ttattcattc ttttttatta ttatcatcct atacattcat 180
tctattatca tatctactat ttatatcaac ttctctaact attctttttt tttaaaaaat 240
ataat 245

<210> 44696

<211> 313

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-046-Q1-K1-H9

<400> 44696

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tgaagaaatc atagatgctc ttgaacaana aatctcaa atgttcagaca aatgggttgc 120
tgcaacaatc aagtccctga aaaaggcttc ccccaccagc ctaaaaattt ctctgagatc 180
gataagagaa gggagaacac aaactcttgg ggagtgcctg cgtcgggaat atagagtggg 240

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actagaaaaa gac 313

<210> 44697
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-047-Q1-K1-A1

<400> 44697

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ttcccatcta aaagtagtta aaggagttgc ctggcattac attttccgag gacagattct 120
gatgtgaaga gggcgcttg catgaatcaa ggggcatctc caccactct gaaaggctgc 180
catgaggggtg gaaaatagct cacagtcgca ggaagaggaa tagcatcctg ccaacatggg 240
tgagctgctg gcgcatcata ccaattccgc ttctgctatg ctccgtccac caggtcacca 300
gcttgagacc gaggcataca accgccagat tttgtgtttc tcagagcaag tagaactaaa 360
gcacctcana gatgtaaatt tatgcactcc caaatttagg attttgagcg caatcttggc 420
agttttcata catgc 435

<210> 44698
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-047-Q1-K1-A10

<400> 44698

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gaattctctc atggccaacg ggctcctatt gcagtaaggc atatagagtc aatcatcgt 120
atgtcacacg cacatgcaag gatgcatctg atgagctaca tgtctcacga agatgttgac 180
atgtccatcc ttgtcttgct tgactctttt atttcgactc ataagttccg tgtgcataaa 240
gcactttaaa agaatt 256

<210> 44699
<211> 327

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-047-Q1-K1-A11

 <400> 44699

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 ggacatcaca gaagttatcc gccattcgta caggcagctt ttgctgacaa ctgctggtct 120
 tgggtgaatat atttctggcg ctattctttt cgaggagacc ctttatcaat caactacaga 180
 cggcaagaag tttgttgact gcttgaaaga tcagaatatc atgcctggca tcaaggttga 240
 caagggtttg gttccattgc ctggatccaa caatgaatca tggtgccaag gtcttgatgg 300
 tttggcttta aagtgtgctt aatacta 327

<210> 44700
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-047-Q1-K1-A2

 <400> 44700

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 cagctgcccc ttcggttcaa gctgacttat tctgctgagg atgaagcaaa aattgaaagg 120
 cctgtgatga tacacagggc aatcctaggt tctgttgaaa ggatgtttgc cattcttttg 180
 gagcattaca atggcaaatg gcccttatgg ctaagccctc gccaggccat tgtttgttca 240
 gtatcttctg gttcagtgga atatgcgaaa caggttcttg ccatgctaca tgaagctgat 300
 ttccatgttg atattgatgt gagtgcaggg acaatacaaa agaaggtacg ggaagcccag 360
 gtagctcaat tcaactacat tcttgtcgt 389

<210> 44701
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-047-Q1-K1-A3

 <400> 44701

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 aggacgacga cagggaggag ggcgagatca ccgacctcgc ctgcgctcct tccccgcccg 180
 ccacgcaccc gctcgcgcac tcctggacct tctgggttcga caaccgcag agcaagtcca 240
 agcaggccgc ctggggggagc tccatccgcc ccatacacac cttctccacc gtcgaggaat 300
 tctgggggct ttacaataac attaatacacc ctagcaaatt gatcgtggga gctgatttcc 360
 attgcttcaa gaacaagatc gagccaaaat gggaagaccc tatttgtgcg aatggtggtg 420
 aatggaccat cagct 435

<210> 44702
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-047-Q1-K1-A4
 <400> 44702

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 gagacctctc gcgttcgcgc ctctccctg cccctgctgc cgttcccctt cttcctcagt 120
 tctccgccc gctgctgccc tccgtccgcg tccagatccc gccaccaacc gatccggcgc 180
 cctccagcat ggcgggggcg aaggcggcgc gagccctggc tcttgcgctc gtgctcgcgc 240
 tcgcgggggc caactccgag ggcgacgcgc tctcggcgct gcgccggagc ctcagggacc 300
 ccggcggcgt tctgcagagc tgggaccca cgctcgtcaa cccctgcacc tgggtccacg 360
 tcacctgcga ccgcgacaac cgcg 384

<210> 44703
 <211> 334
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3076-046-Q1-K1-G11
 <400> 44703

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 gtgatggatc ctattccgga cggggaccgc catcacaacc ngcacgccta gcgcgactgc 120

gagatcggcc atgtcgtgcg tatecgtgag cggcacgcga aagccgccgg cgccttcgac 180
gacgacgatg tccgcacgcg tcagcgctc gcgatggcac gcgacgatcg tgtcgatgtc 240
gagcgtcacg ccttcctgcg cggcgactat gtgcccgcg gtcggcgctt tcagcaagaa 300
cggcgtgccc agttcgggcg ggagcacgac gttc 334

<210> 44704
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-C10

<400> 44704

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aaagtactgg gtgttccttg ctcatccaat acagagctcc ctttgggcat ccatgcttct 120
tggtgatgaa caaatattat agaacgtcct atatatatgt actagtaaaa aacatctcat 180
atgaatcgaa ttaagcaaac aaagggggaa aacaattgaa ggaaaggaat gaactttggt 240
cagctagatg ctatgagcca gcagtgcggt tcgatagatt aggccaccat ctgctcctgc 300
tccgaccact gcgcaaatat gtcgccggcg tggccgtcct tgacaagaga gttcaccac 360
gagacgtctg gc 372

<210> 44705
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-C5

<400> 44705

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gctagctata ggtaagaccg taagaggatg atggtggaca ggcagcgcgt gaggcaatgc 120
gacattgagg tcatgaagat ggccatgctc aagcacgaag aaaccttcag gcagcaggtc 180
cacgagctgc atcgctgtga ccgtatacag agggagctga tgatgacgac gagtgcgac 240
ctgaccggag ccaagccggt gaccaccccc cgccggcgca gcaagcagcc gcggcgggcg 300
ctgccgctgg gcctgcagct tccggccgac gaggatc 338

<210> 44706
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-C6

<400> 44706

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cgctgcggcg gacgggggag gggatgtggg cgccgcctcc gcccgccgcc gccgccggct 180
cgggcgtgcc acggaggggc ctgctccgac gaagagaatc cggtcggggg cgcagaggtc 240
gccgtacgac tcgtctctgg agacggcgac ggacggctgc tgctggccgg cgcgcctatc 300
gcat 304

<210> 44707
<211> 392
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-046-Q1-K1-C7

<400> 44707

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gggtcgttcc gatcggcacc ggaccgcncc aatngaggtc gccgccgtgc ccagatccgc 120
cgcggcctgc cgtgcggcgc ccctgctccc ggccgttcga gccgctgcgt gccacctggc 180
cctgccccgg cgcgcgttct ccgcatccgt cgcggcgga ccggcgccgc gccgcctcgc 240
cgctcgtngc gctgcggatg gtgacagcgt ggagacggcg ccggaggcgg tccccattga 300
gaaaagggtc cctcccttcc cgagcgtcat ggacatcaac cagatccgcg agatcctccc 360
ccacagggtc ccattccttt tggttgatag ag 392

<210> 44708
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-C9

<400> 44708

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ccgctgcttc gtcggcgggc tcgcctgggc cacggacgac cactccctcc acaacgcctt 180
cagcacctac ggcgaggtcc tcgagtccaa gatcatctc gatcgggaga cgcagaggtc 240
ccgcggcttc ggcttcgtca ccttctccac ggaggaggcg atgcggaacg ccatcgaagg 300
catgaacggc aaggagctgg acggccgcaa catcacgctc aacgaggccc agtcccg 357

<210> 44709

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-046-Q1-K1-D10

<400> 44709

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gggcgccccg cacatgctcc actactgatg attgcctcca ccaaccacac caccatacat 120
ctgaggctgt cagctggggc tggttggcaa caagacaaga agaattggct gcctctcaac 180
aacattcaca tctactacct acctggctgc tttgagaatt acagggcctc tactatctgc 240
tgctgtgtta aatctacctc ctggtttctc caataattgt cgctgttctg tactcttctc 300
ttatgttctg tctgtcagtg tgtatgagat gatgctcatc ttatgttatg taaggcttaa 360
tcatgtgtct agntgtactt tctgtcttgg tatgttatca gntatatgaa taataaaggg 420
ttatgtaagc ttcc 434

<210> 44710

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-046-Q1-K1-D8

<400> 44710

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 acctgttcgc gcgccccttc cgcaagaagg gctacatccc gctcaccacc tacctccgca 180
 cctacaagat cggcgactac gtcgacgtca aggtgaacgg cgccgtccac aaggggatgc 240
 cgcacaagtt ctaccactgc cgcaccggtc gcgtttggaa cgtcaccaaa cgcgccatct 300
 gcgtcgagat aaacaagcag gtgaatggtc ccatcatcaa gaagcgtatt catgttcgcg 360
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<210> 44711

<211> 347

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-046-Q1-K1-D9

<400> 44711

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 gtgcatttta gagggggggcc ggcaccacac ctccaanaat ccacctccac gactgagttg 120
 accgctcggc ggcgccatgg cagttcaccg gctccaacct tcccccttcg gactacagtg 180
 ctccaccgac cggacgccag tgctccttca tgagccacag ctgaccggtg cacgcaccga 240
 tggatggtgc atgcatgata ggtggatttg gttgacctag attcgatgtt ctaaaagcga 300
 cttggaggtg gctgacatct tcaaacactgc aaccattcag ttacaac 347

<210> 44712

<211> 263

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-046-Q1-K1-E11

<400> 44712

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 tcatctgcgg ctatggtaat acattctgaa aatgggtatc aattacctgc atctacagca 120
 actcaacaac cagtgcacca gagggccact caacagttcc aagcacctca caatccaaac 180

tttatgccaa atcggcatgg attctcacca catttcgggt ctctaattggg tgtttcnccc 240
caaaaaatca accacttttt ttt 263

<210> 44713
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-E2

<400> 44713

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ggggactcga tctgaccggg aaggagataa gtttggatct atggaagcgg catgcgaaaa 120
ggggaccagt tcagagacta tgaaacagcg aatagggagg ccaaagaaaa tcttgaagca 180
aacaatgat agcatttcgg atcgtgacaa ggggtcacat caggagcaca tcgaggccaa 240
agaggaagtt gatattctgtg gtgggaaaga cttgacgcat ttgaaaactc tggagcgtac 300
cgaggctcag aatagcacia tgataaccaa ggaagtaaac aacaacgaca cagcagagaa 360
aaacctatcc aagatagagg gagacaactc ggatct 396

<210> 44714
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-E9

<400> 44714

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ctccccaga gagcaggagc cgcctcgtcc ctgccgggtcc cgaccccgac ccccatcccg 180
tccgcgtcca acgccatgaa tcccaggtac gactacctct tcaagctgct cctcatcggg 240
gactccggtg ttgggaagtc ttgcctgctg ctccaggtttg cggatgattc atatctggag 300
agctatatca gtactattgg agttgatttt aaaat 335

<210> 44715
<211> 272
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-F11

<400> 44715

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acgcccacgc gtccgcccac gcgtccgccc actcgtccgg actagttcta gatggcaaac   60
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atgaaagaaa atataaaaaa aaaaaaatta attaaaaaaa aaataaaaacg tttatttctt  180
ttttaatagt gcaatttata tttactcttt tgtcccatat tttacatctt tttttactgg  240
gataaaaatt gaaattacct atcttaattt tt                                     272

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<210> 44716

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-F5

<400> 44716

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gtcaactaga gtgaatgatc agtatcttac aaatgtcttg ttaaagatta acgcaaagtt  120
gggtggcttg aattcgttgc tccaaattga aacatcccca gcaattcctc tcgtatccaa  180
ggtcccaact ataatcttgg gtatggacgt atcacacgga tctcctggac attctgatat  240
accgtctgtt gctgctgttg ttagttctcg tgaatggcct cttatctcga aatacagagc  300
atctgtccgc acccaatcac caaaaatgga aatgattgac tcgttggtta agccacggga  360
aactgatgac gatggttctg ttcgggaatg tctgattgac ttctaca                                     407

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<210> 44717

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-F7

<400> 44717

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gagcgaatac tggctggagg gaatggtcac agaatatctt gttgagacat ttgctgatta  120

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cttcggtgac gttaaaatgt atattgaaga aagaccattt cgaagatttg tggaggcttg 180
catagaagaa acaatcgtgg tctatgttga tcatctcctt tcccagaaaa actacataaa 240
agaggaaaca a 251

<210> 44718
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-F8

<400> 44718

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tttgtttttt tttaaatttg ggtggtcttt tttttttttt attttttttt tttttttttt 120
tttttttttg caaaaaaaaa aaacacacat taatttccca attttaaaaa agataaaact 180
tatggtttta attaaattcc aggtaaccaa aaaaaataa aataaatttt ggtcccaaatt 240
tatgaatttt ttttaaatac aaccacacaa aaattaaaaa taatttttaa attaaaattt 300
ttatctatac aaaaaattct ttttttttca aaaaattaat aacttttttt tttttttttg 360
gaatttaacc tcccattttt tttttttccc tttctttt 397

<210> 44719
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-046-Q1-K1-B9

<400> 44719

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taagtccctt ttgggccttg gcagcatgac cttgaacctg tcaaagtcac tgagcgcagc 120
cctcctcttc tggacaatca gcttcttgcc ccatgagctg ttttcccact tcgtcttcac 180
atcagcttcc tccatagcct tgatcagggt tgacttcttg ggaacgcggt tgatgtcaat 240
cttgatgtca gctcaaaata agtttcgatt acagttgcct ggggagggtca aacttgcaga 300
ggaagcggat aaattactgg atgggttggg tccaagggtt tctggttggg ggggatatga 360
tcctgttccg gtggatgctg atctgttgcc agcta 395

<210> 44720
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-E9

<400> 44720

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ttcacctgac aagttttcat gggatcatta gcggtctcct atctctagtc cactgagaag 120
tccagtttta aaatcaagaa acccaagtgc acctccatca ccaatgcac caaagttgtt 180
cccggagaac catgtttctc gccctgatgg caatggaagt gctagttttc acccattacc 240
gtccctcct gcttctgtaa gcccaaagca gacaaatgct agccaccagt tagttccaaa 300
agctgagatg ccttcggtgg ctggtcaatg gcagaaagga aaactcttgg gtagtggcac 360
ctttggatgc gtgtattaag ccaccaataa gcacactgga actccttttg ccatgaaaga 420
ggtgaatata at 432

<210> 44721
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-F7

<400> 44721

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ggcggatgcc ggcgccttcg tcagagaagg tggcctcctt ctgccccgtg acgccacgtt 120
cccggcggcg caagcggagc ggctcattct cgcgctcaac ctctgccta aggagaagga 180
ggctgcgccg gccgcaggcg gctgctacgg gccagcgtg gtgcccgggg agctcctata 240
gcgtcgcgtc cggctgcccc 260

<210> 44722
<211> 200
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-F8

<400> 44722

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gacccaggcc caagcataga aactagcgt tctctacca gggcgggct tcatccagc 120

agccatggcg atggcgta atattggcgac tgttgggatg aacgtgaagg aggagtgcc 180

tcgctgggtc atggagatga 200

<210> 44723

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-G11

<400> 44723

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gcacgtaa at ccctggggcg atgttgaagc tgatgaagca catcaaagaa aagtacggga 120

atccgcccgt gatcattact gaaaacggca tggatgatgc gaacaaccgg ttttcgaaat 180

tagaggatga tctgcaggat gataaacgga tacagtacca caaggactac atgtctaacc 240

tcctagacgc aattaggaat gaaggctgca acgtccatgg ctacttcgtc tggctcgtgc 300

tctacaactg ggagtgaac tcccgttaca cgggtgcggt tgggtcttac tacatcgact 360

acaacaaca tttgacactg ttacccaaag c 391

<210> 44724

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-G2

<400> 44724

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gatcatgccc caaggactcg agatgaagtc gagggcacgg tccaccgccc gcgactccag 120

gctttcgggtg aggaagacca aggctgagaa ggacccaaac aagcccaaga ggctccgag 180

cgcgttcttc gttttcatgg aggagtctct gatggactac atggagaagc cccccaatgt 240

gaaccagggt tccttgatt 259

<210> 44725
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-G5

<400> 44725

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tgctgccgtg atatcgaaac tgggtcaaagc tggcgggtgtg agatctgtcc agattttgac 120
gtgtgcaacg cttgtttcaa aaaaggagcg gttactcacc ctcacaagtt aacgaaccat 180
ccatcagctg ctgaccgtga cgctcagaac gcataagctc ggcaaagtgc tgttcagcag 240
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tatccccact gcctaaaagt caaaggacta ttccgtcacc ggatgcaatg caaaacgcgt 360
g 361

<210> 44726
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-H1

<400> 44726

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tcattgactg aatatgggct cttggaatgt cttcatgaga tgatttttca agttctgact 180
gtttactgaa c 191

<210> 44727
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-H11

<400> 44727

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catatacggg ttatttgga attttgatca ctctaagaac actcattaac tcataatatt 120
ctatTTTTga ttcataattc ttacctttca cctcatttc acaaacttta acatttattc 180
aatcattaat tcttattaac tttcaaaaat caattctata tttctctatt attattgaac 240
tctttttccc caaactttcc tcaacactga acctatttca cactttttta tcattatcaa 300
taccctattc tcatataata caaacatcgt tttttctttt c 341

<210> 44728
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-H5

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agaaagccgc tcaggcagct caggatggat gccaccatcc cataatttac actagcgagg 120
atgtcgtcgc aagagtcaag gatattacat caggaaaagg tgtcaatgtc gtctatgatt 180
ctgttgga aa ggatacat aaggcttccc tggagtgtt ggcgtcccgc ggcttcctgg 240
tgtcgtttgg gcagtcggca ggcaaacctg acccaatccc aacgagcga 289

<210> 44729
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-H6

<400> 44729
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ggtgtcctgc aatttcatta gcagaagttc ctagcaaaca agcaagaaat gatcatgagg 180
cagcagagaa gcttaagttt gtcatttatc aaaggcccaa agcattccaa aatggaagca 240
ctgatttggg aaacaagaat ggtgcaccaa aaactgttga agagagaata gaggaatata 300
attaagcacg agcacgcac ttaaattggt ctggttctgc agattctgat gtttcaagtg 360
ttttggggaa ctctttgcac tggc 384

<210> 44730
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-A10

<400> 44730

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atggactggg tgtggacaag agaagagaaa gagatagcta ttgtcagtca cagtggtttc 180
ttgtttcaca ccttaagcat gtacagcaag gagtgccatc caaccataag agacgaagtt 240
agcaagcact ttgcaaactg cgaagctacg gtcgatgggtg ttggttgaca 290
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<210> 44731
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-A11

<400> 44731

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cagtttaggc cggcgtacca cctgaaggt ctatacgatg ataccaagag cagcataggc 180
tcaaacaatg ctggcgagag gccgatgctc cagatgtggc atcgaaatgg caggtgcccc 240
gagggcacgg ttccaatcag gagaaccaag aaggacgacc tgcttcgagc tagctccgtg 300
aggcggtatg gcaggaagcg gcacact 327
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<210> 44732
 <211> 369
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-046-Q1-K1-A12

<400> 44732

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tgctactttt taaaacatgt gcactgtttt gottattatc aaaatcctgc tgagaatgct 120
acgtcgaata ctgtaggcgc tgaaccgcgc tgggtggcaag gctggaaaca aggggtgctga 180
agctgctctt acttccgtaa gttacccttc cagtcggaaa tcctgatttc aaacaaacat 240
agatgcatta gcatgtgaga agcccaagtt cccctgcaga ttgagatggc ctctcttgn 300
cngcatcact tangctgaca ctttgcataat ttctggttct atacacgagg caagacatca 360
tttctttct 369

<210> 44733
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-046-Q1-K1-B10

<400> 44733

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tccttcgcgc gcgacgggca ccaccagtat ggacgaatca cgaaaaagag ctgtctctac 180
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aaaagacacg attgacttca gtgttgactc agttcccaag agtagcaaga aattcagctt 300
tgacaacctg gatgattttg ggcttaatgg agcctttgac aaattaccgt cctttcaa 360
gggcatgtct gatcttgatt tttctagccc tgacaagaaa a 401

<210> 44734
<211> 351
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-046-Q1-K1-B12

<400> 44734

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ggcgggctcc acaacgcgcg cttctgcgag aaggacctgc anacggcgat cgaccgcgag 120
gcggtgttcg cgtacgcgga cgaccctgac agccccaact acccgctgat gcagaagctc 180

cgcgcggtgc tggtcgagca cgcgctggcc aacggcgacg ccgagcgcg cgcggagacg 240
tccatcttcg ccaaggtggc cgagttcgag cagcaggtcc gcgcggcgct gccc aaagga 300
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<210> 44735

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-046-Q1-K1-B2

<400> 44735

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cctcgtgcgt gcctcccttg tctgcaaggc ttggcgggag ctctctctta gccccatctt 180
cctccgcgcg taccgcagat tccacggcgc gccgcctctg cttggtttcc tctacaacat 240
ctacgacgaa cgcccctgtg ctcgattcgt cgtcgccgcc gacgccgcca ccgcttncc 300
cttctctgca ccggcgttcg atcaattcga tttgtggttc atcgagtgcc gccacgggag 360
cgccctgcta caaactttcg agcgacatgc g 391

<210> 44736

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-E6

<400> 44736

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gaagcatcta cactagaaaa ggagaggact gccgcgttgt tgcaagagaa cgagaagctg 180
aagaagcagc tggagaagct gaggaagaag cagcagatgg agctggagac gatgaatgtg 240
caccttgccg agagccggct gccggagtcc gctttgggtg ccttctacca ccacgagaac 300
gagaggacgc ctgacgacga tctgttctgg cgggccgtct tcgcttttgc gtacagtgc 360

tgaagttacc tgactgggga ttgcttggga gttgaatctc gtcaactgag acaggttgac 420
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<210> 44737
<211> 372
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-046-Q1-K1-B3

<400> 44737

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ccacggctta agtccctttt gggccttggc agcatgacct tgaacctgtc aaagtccactg 120
agcgcagccc tctcttcttg gacaatcagc ttcttgcccc atgagctgtt ttcccacttc 180
gtcttcacat cagcttcctc catagccttg atcagggttg acttcttggg aacgcgtttg 240
atgtcaatct tgatgtcagc tcanaataag tttcgattac agttgcctgt ggaggtcaaa 300
cttgagagg aagcggataa attactggat ggggttgggtc caaggttttc tggttggtgg 360
ggatatgatc ct 372

<210> 44738
<211> 225
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-046-Q1-K1-B8

<400> 44738

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cgcccagagt ctccttcaac tcccaccnna tgacccaacg tgctcttgc gtgcctccct 120
tgtctgcaaa gcttggcggg agctcctctc tatccccatc ttctcccc gctaccgcaa 180
atttcacagc gcgccccctc ttctttgttt tctctacaac atcta 225

<210> 44739
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-G6

<400> 44739

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gatgactgcg agggcgccct caacgagcag atcaacgtgg agtacaacgc ctctgatgca 120
taccactccc tcttcgccta tttcgaccgc gacaacgtgg ctctcaaagg atttgccaag 180
ttcttcaagg aatccagcga cgaggagagg gagcacgctg aaaagctcat ggagtaccag 240
aacaaacgtg gaggcagggg gaggtccaa tcgattgtga cgctttaaac cgagtttgac 300
caccctgaga aaggagatgc tctgtacgct atggagctgg ctctggccct ggaaaagctg 360
gtcaatgaaa agctgcacaa cctgcatggt gtggcaacaa ggtgcaatga tcctcaactg 420
acagacttca tcgagagtga gttcctcga 449

<210> 44740

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-G7

<400> 44740

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gggcactgca agggcggcaa gggcttaggc aagggtggag ccaagcgcca ccggaagggtg 120
ctccgcgaca acatccaggg catcaccaag cgggcgatcc ggatgctggc tcggaggggc 180
ggcgtgaagc gcatctcggg gctcatctac gaggagaccc gcggcgtgct caagatcttc 240
ctcgagaacg tcatacgca cgccgtcacc tacaccgagc acgcgcgccg caagaccgtc 300
accgccatgg atgtcgtcta cgcgtcaag cgccaaggcc gtaccctcta cggcttcgga 360
ggctaagcgc ctcttcgtag ctggggaatg cttagggtga tacgtctctg tcgctagggg 420
tcgtactgtt gctgcattcc tggatgt 447

<210> 44741

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-G8

<400> 44741

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tcgccctcac ctgccctagc cgcacgaggg agcgttcgcc gccccgcccc gtcctccgt 120

ctaccgtcgc ctgccccacc gcgctccgtc tgccgcccct ctcttgagaa atgtctgagc 180

atctctttga ggacaccttc gtcgtcacta gactcgaccc tgatggcaaa aagtttgata 240

gagtttctcg tgttgaagct cgcagtgagc atttagatat gtatatgcag ctagatgttg 300

ccacagatgt ttatcctatg catgcttggt agatattaac atggttatag cgcctactct 360

gaatttgat 370

<210> 44742

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-H12

<400> 44742

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tcagcaggtg acagtgaagg ggtcatcaat gcagcaggga tgaaaaatga tatatcaact 120

gacagctcca aggattcagc tggttccacg gatttgatat caggcagagc aaaggaagat 180

ttgcatcgtg ggcacagaat agcaacttgt gccagtgtg atataagctc atggagcatg 240

tcaatcccta atgaatgtga aggaactaca gaacagttat ctgatggctc agacaaattg 300

cctttgcgta agatagcgaa aacatgtgct ttgac 335

<210> 44743

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-H2

<400> 44743

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cgcggaacct tcatactcca agtactagat taatcaacca atgtacccaa tatttaccct 120

cttctaaaga caccatacta tctgcctctt ttatcctaag tatattaagg cctcagcact 180

acacattacg aactgccatg caggaatttt tcaacaattt gacttataaa tcgtcgtgtt 240
 caaaatacac aaatctgtca ataataatac gcattttcca ctgacgtgtc ttacttaatt 300
 ggccacccca tattttctt 319

<210> 44744
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-H6

<400> 44744

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 ttatctttta gctatgtaat tttgctacca tgtgtccatc taccatactg atagtacctc 180
 ttattatggc tgctatgcaa ggcatatcca tggttttgtt tgatgaaaaa aaattaaaaa 240
 caaatctcaa aactacttca atcacatcac atacaaatat ataacttgaa ttaaaactat 300
 aagactcact tcaaatgtat aaaaaaaagg ggctcccggt ttaaag 346

<210> 44745
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-H7

<400> 44745

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 atcatcacgg tgtatgtaac ttttcaatca taccctcact aaatctcaac tttctccttc 120
 tgcgatcagt tctagcaatc cttcatcagt atagttatat ctgtcattgc acacattcta 180
 tacaccacaa gttcttttac ttcattcttt cttgatgtaa cattctcatt gaaccaaact 240
 atatactgct aatcaaagtt catccacata taataattag tttccccaac atgtacatca 300
 cttaaattta tctcattaaa cctttcacaa aaccaaacct taaatttcta ctttcttttt 360
 ctataacatt aattataaat tatctatcat tctattaaac atatttcatt catttct 417

<210> 44746

<211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-044-Q1-K1-H8

 <400> 44746

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 gtcgtcaaaa aaaaaaaaaa gagaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaat 120
 aaaaataaaa aaaaaaaaaa aaaataaata aaaatagaaa ataaactaaa caccataaaa 180
 acaaaaaact taatatgata aacaatggaa cattcacatt gaaccaaaaca gagaactgtg 240
 aattaaagtg ctcgatataa aataattaat ttggctaaca ggtaca 286

<210> 44747
 <211> 461
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-045-Q1-K1-A10

 <400> 44747

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 gcgcccgcggg ctctctgccg tccttctcct cctcgagtaa gcggctggaa ggaaggtgg 120
 ccctcgtcac tgggtggcgcc accggcatcg gcgaggccat cgttcgcttc ttcattggagc 180
 acggcgccaa ggtctgcatc gcggacatcc aggatgaggc cgggcagcag ctgcgcgacg 240
 ccctgtgagg tgacgcgcag ggcgccatgt tcgtccactg cgacgtgacg tcngaggagg 300
 acgtgagccg cgccgtggac gctgcggcgg agcggttcgg cgcgctggac gtgatggtga 360
 ataacgccgg cgtgacgggc accaaggtga cggacatncg gaccgtggac ttcgcggaag 420
 cgcgcagggt gctcgacgtc aacgtgcacg gcgtgttcct g 461

<210> 44748
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-045-Q1-K1-B7

 <400> 44748

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gagctgaaga ttcgcttgca gaccatggaa caacaagtcc acttacaaga tgctttgaat 120
gacaccctga aaacagaggt ccagcggctg aaggtggcaa caggacaggt gggcaatggc 180
ggtggaggga tgatgctgaa ctttggggcc atgccacgcc tggtcggagg caaccagcag 240
atgttcaca gcagccaagc gatgcaatcc gtgctggcga cgcaccagct gcagcagctt 300
cagcttcact cccagcctca gcagcagcaa ctgcactcgc tgcagcttca acatgtggcg 360
agag 364

<210> 44749
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-C12

<400> 44749
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gcgcccgcgc acgtcggcgt gcgcgcgctc tacagaggcg cgtccggcga cacctggggc 120
tggggcttcc gcgccttcta ccccgctcgc catgtcacgt tcgccaaccc cggcgtgcat 180
gaggaccccg cgtgcggctc gctgcttgac gccgtcgcca tcaaagagct gcccgcgccg 240
taccgacca aatacaacct gatcaagaac gactgctttt aaatccgttc ccaagtgtc 300

<210> 44750
<211> 483
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-C9

<400> 44750
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cttgatctct ccaatagtaa tctgcttggc tccatccctt cttgtttaat ggaggatatg 120
agtaacctca atgtattaaa tttgaaagga aatcaacttc atggaagatt accaaatagc 180
ctaaagcaag attgtgcatt cgaggcatta gacttcagcg ataatcagat tgaagggcag 240
ttacctagat ctctagttgc ttgcaaagat ttagaggttt ttgatatcgg gaagaatctt 300

attaatgatg catttccatg ttggatgagt atgcttccta aacttcaagt ccttgttcta 360
aagtccaaca tggttactgg ggatgtgggg ccatctatctt cagaagatca aaatagttgt 420
gaacttggaa aacttcgaat tatttgattg gctttaaaca atttctctgg attattgcga 480
aac 483

<210> 44751
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-D2

<400> 44751

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gcgccataggc atcgacatgg aggacttcta cgtcacgac ccctacggcc tgctgctcgt 180
agccggcgcc gtagccggct acatgaagcg cggcagcgcc gcgtctctgg tcgccggggg 240
cggattcggg gctgcgctcc ttctcgctgg tgcgctcagc gcctgggcct tcgcgcacgc 300
cggaggtggc gctgccgaca tctttgccac cgtccttcag atcgtttgtg ctgtgctatt 360
gactgttggt atgggaataa gatatgtcaa aacacaaaag ataatgcctg ctggaattgt 420
cgcttctatc agtgcacttc gtactgatat t 451

<210> 44752
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-D5

<400> 44752

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cgagcagtgg tggccgcggg ttccccggc tcgtcctccc ggatccggcg acgaagatta 120
attgaataac ttcgataaga tgggtcgtgg tattagcagt gggggtggtc agagttcctt 180
gggctatctc tttggcagtg acgaagcttc aaaatcattt gagaagcctg caccagttca 240
aaagccaact tctccatcct ctgcagagag actaaaagat atcgctgctg gtattcaaag 300

tagtaaatca tacaattaca aaagatctga aggccagaac tgtggaaatt tccttacgga 360
 ccgtccgtcg accaaagtgc aagcaggctc aggggggaac tttcactcgg gtatcttttt 420
 a 421

<210> 44753
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-045-Q1-K1-E4

<400> 44753

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 atggctgttc acatgactac gaccacagat gattaaaggc tttagagcac cctgtattga 180
 atttgagtga tcaccattcc tgatattgta gaggtcaaca tttttaagga tgattttatt 240
 attcagtttg tgaatcctaa agtgtccagt ttttaattgt gctaatacat gtg 293

<210> 44754
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-G5

<400> 44754

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 gcaatgggtg actacacaat ccagattagc accaagctca ttgaccagct tgctcgtgat 180
 gacgagaagg taaaactgaa agccatgaag cccaagccta agaagaagcc caccgtccag 240
 ccacatgaag agccccctgga attcccagaga gaaccataga ctacaagcct tgctactgct 300
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<210> 44755
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-C9

<400> 44755

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caaagagcag ccctgcatgg gatgaagact ggggtcctac taagaaaacc ggtgttccat 180
ctctctcagt tgattctagt gcacaaacaa agcaaccctc agtacaccct ttgacttca 240
gtactcaaac aaagcaatcc acaccactcc cctttgattt gagcacccaa gttaaagcagc 300
catcattagt ttctcatgct acagcagcta cgatcccacc tgcgcaacca caaccagtac 360
aatctcttgt gcccagttca ggaccttaat cttctggctc atgtgccctt ggtga 415

<210> 44756

<211> 120

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-D12

<400> 44756

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ctctttgaaa tccaacatta ccaatcgtac aattcaaact ccaacttact cctatactat 120

<210> 44757

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-D2

<400> 44757

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggca tcctatttaa 180
agaatcaaat ttaaattaat aattaatata acataaaata tttataatat tgaacccaaa 240
tttaaattaa ttgcccataa attaaaaaat aattaactag aaaaaccctg attataccaa 300
attta 305

<210> 44758
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-D5

<400> 44758

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cttgctgaac tcgggctaac tgaactacca gccatgttac aggactcaca tcctgctggt 180
ggctctactc ttattggtgg tgaaacagaa cctctttaca ggtatgaaca attttgctgc 240
acaattctat atgcacccaa acaaagtata caaaaacaat acccaacata gcatatatga 300
tgctaattct tcttgcaaaa attgtccata gcttgctaca agacatctat ctacacgtga 360
catgtatgag gagtttaaga agcatgctac ta 392

<210> 44759
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-D8

<400> 44759

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gccgcggctc ggatagaagc ggagcgaaaa tcctctgcag aaaggtaagg attcgcaggc 180
gtgatcagga gctgaaagaa cctgttcgag gtggcctaca ctcgtaggga tcgcgttgac 240
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aacaataccc gtggcaccaa aaatttggtg catagatcca agagaagaac aatacatatc 360
t 361

<210> 44760
<211> 99
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-D9

<400> 44760

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<210> 44761

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-E10

<400> 44761

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aagtcccggt gaccgaggtg ccagcggagg tcccggcgga ccatgtggcc gatgcgcccc 180

aggctaagaa cgcgcccagg gagaagaatg cgcctaagga gaagaagctc ttcgcgggcga 240

agaagccggc ggcgcaccct ccctacgctg agatgattgt agaggcgatc gctgccctta 300

aagagaggaa ggggtcgagc tcggtggcca tcaacaagta 340

<210> 44762

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-E11

<400> 44762

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agaaagcatc gatccattac tgcaagttct caataccgaa ttccgttatg cttaccgaat 180

cgtcttatga agggctgctc aatcaccgag ctcccatgct cattctcgta ttactacaat 240

ggcaatacca tcgagctctt aaatttacat gaacatattc ttgctcataa cgcaactgat 300

gatgactagc aaacgcagat tataccactg aacataaaca ttgcagtgcc caaattcaaa 360

acaatgacta ttctaa 376

<210> 44763
<211> 61
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-E12

<400> 44763

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t 61

<210> 44764
<211> 457
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-044-Q1-K1-E5

<400> 44764

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tttacttgtc tcagcccggg gtctgctgcy tctggtggtg gtgaagggga gaaattcgtg 180
agatctgttc cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt 240
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tctatgatgt atgaagctcc ccttggttac agcattgagg acgttcgacc tgccggaggc 360
gtgaagaagt tccagtctgc tgcttactcc aactgcgcga agaagccatn ctgatatccc 420
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<210> 44765
<211> 220
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-E6

<400> 44765

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 acccgtaacc tatagacacc tcaacatact aacatgtaaa aatgatacca taacataacc 180
 tgatttaaatt ctataactcc tacatactac aatatcacac 220

<210> 44766
 <211> 341
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-E8

<400> 44766

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 gcccgcgcgc gtcgccgcca tggggagggg aaagttcaag gggaagccca caggccgccg 180
 caacttctcc acacccgagg agatcgctgc tgggtacttca ggtcggccac gcacctttaa 240
 gaagaaggag gaagaggaag atgaggaaga ggtagaaaga gaagagtctg aggaagaatc 300
 tgaagaggat tctgatgaat agactaaaca taaaagcact g 341

<210> 44767
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-E9

<400> 44767

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 ggggaaaatt gatccattac tgggagtgc taaaccgaag tttgttatgc ttccagaagg 180
 tcttaagtcg cggtgttcaa taaagggggg gccatgggtca ttcttgtatt actccaaggg 240
 caagaccatc gagctctcaa atttacgtga agatattgag gtgcatcttg caactgatgt 300
 tgccttccga ttgcagccta gacaactgaa cgaaaccact gcagtggcga gattgagaac 360
 aaagctgctt gtaagcaatg ga 382

<210> 44768

<211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-044-Q1-K1-F4

 <400> 44768

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 agcgggtcta tggaatcact atagattgat aacagtactg agaaatacca tccgttgtaa 180
 ttcattgtaa atttgatgca tagtgatgct gcttgtagat aggtatttga atgtcgggaag 240
 aagtacgtct cacggggcct acatttcgta acccctgtgc catgtcaatc cattcttgct 300
 gagcctttga ttgcagtttt tagacaagag ctagccaaat gttttcttgt agctactctt 360
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<210> 44769
 <211> 185
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-044-Q1-K1-F5

 <400> 44769

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 atatcaaata tatctaaata ctatatatta ataacaatac taatatatac catcctttag 180
 atatt 185

<210> 44770
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-044-Q1-K1-G10

 <400> 44770

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catcctcttc tccactctgc tctccattta tcatcactct aatttcttcc tctcattctt 180
 tgtctaatac acccctatat cacatatcta cttacctaac ataccctatt acatcccttc 240
 cttctcattt cataactccta tctctctctt ttatatttct ttctttcact gcttacttat 300
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 ctctcattcc catcccacct acttttcaatt tcctt 395

<210> 44771
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-044-Q1-K1-G11
 <400> 44771

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 cccagccgc tgctccactc ggccgccagg gagcatcacg cttgtttctt tctctgattc 180
 tttgtctgag cagccgctag agcacagagc tactggccga acgtgcccga gtacggccgt 240
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<210> 44772
 <211> 447
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-044-Q1-K1-C2
 <400> 44772

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 aacaggctgg caccgttcgt aaaaacagct tcatcgatc caagaaccgt ccctgcaagg 180
 ttgttttagt ttctacctc aagactggta agcatggcca cgccaaatgc cactttgtca 240
 ccatatacat attcaatggg aaaaagcttg aagatattgc tccttcatca cacaactgtt 300

acttaagtta atatctgtct gttctctggt tatctaactt attttgatag ttcacttcat 360
atgttactga caagttcaat attttttata ttccaaatgt gaaccgcact gagtatcaac 420
ttattgatat atcctaggat tgatttg 447

<210> 44773
<211> 422
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-044-Q1-K1-G3
<400> 44773

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ccaagcctgc gatccttatg ctggctctga tgggcggcgt gaagcgcac cgggtgctca 180
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tcaagctcca gtgccgtacc ctctacggct tttgatgcta ggcgcctctt cttaactggg 360
gaatgcttat ggtgatacgt atctgtcgtg gtgggtcgta atgtatcttc attccttgat 420
at 447

<210> 44774
<211> 373
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-044-Q1-K1-G4
<400> 44774

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ggcagatata tctttctaac gcaaggctgc aattgagtag attcattctt tatcaagggc 180
acaatctgct cgttctctca atgggtgctg cctttgtcct gctagtatat cacttagcac 240
ccatgccgcc actacgtcaa gcacaccaca acctatgtct tccttaccct cttcatagaa 300
gactcacttt gttggcctca aatactagga tcgcattttt accaacctct attgtctgca 360

ttaccctttt ctt

373

<210> 44775
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-A10

<400> 44775

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caaacatact tcttggtgat gacatgaagg ccaaggtggc ggactttgga ttggtccggc 120
ttgcaccagc tgatgggaag tgtgtctccg tagagacaag acttgctggc acttttgggt 180
accttgacc agagtatgca gtcactggac gagtgaccac aaaagctgat gtcttcagct 240
ttggtgtcat cttgatggaa ctgattacag gacgcaaggc acttgatgag actcagcccg 300
aggatagcat gcatttagtt acatggttcc ggaggatgca gctcaacaag gaaacattcc 360
gcaaagcaat cgaccctgtc attgacctcg acgaggaaac ctacgctagt g 411

<210> 44776
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-A11

<400> 44776

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agactctaag ccggcaaaca tacaaattgg agatgacatg aagcccaaag ctacggaatc 120
tggattggtc cagcatgcac cagcatgatg ggaagtgtgt cttcgtatag acaagacatg 180
ttggcactat tggatacctt gaaccatatt atacactcac tgtaccagtt accacaaaag 240
ctgatgtcat cagattatgt gacatcctga ttgaactcat tacag 285

<210> 44777
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-A12

<400> 44777

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ctgcactagt agcttgcgct atgtatcctc tactagacaa gacacgtgat cacgctcggg 180
ctccttgaac cagaccatat cataatccga gcagacacca cgaacatgca tgtgatcgga 240
tacataatca tcctgatcga ac 262

<210> 44778

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-A2

<400> 44778

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tctttctata attgggatct ttgtagatg tcaaccctga gattgctctc tgcataaggct 180
tacaattcgc tggatccaaa tggcaatatc actataaaat ggtatatcat tcaatggact 240
cctgatagat atatcataag tacaattacc cacattaaca actgtatctc tttcatcttc 300
agcttgatac accctggttt attctattaa atatcccatc ttcacctgta caatataagt 360
taatgtaaca tggccaattg ctgattttca aacatacatt accgataaca ataacaccat 420
ccaaaattta 430

<210> 44779

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-A4

<400> 44779

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tcatcccaaa attctacgca cttgacactt taacataagc ccattccatc caacaatacc 120
aattacaatc aataatctat caatctctat attaaccat catcctcctt acatccataa 180

tacccacacc ctttctaata cattgctaatt attactaaac tgcaactatc actctacaac 240
aaccgatatt atcattgtat aaaaaacctt ttaattctac atataa 286

<210> 44780
<211> 156
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-A5

<400> 44780

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gatctttagt ttgatgtcaa ccctgtaatt gctctctgca tatgcttacg attcgcttca 120
tccaaattgc actatcacta taaaatgcga tatcat 156

<210> 44781
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-A6

<400> 44781

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gaccgcttca gataagccaa aaagctaagg cttgagctgt tggatgctgc cctggtgttg 120
ttggctggat gagttgtgtt gacctaggaa gcagcagaat gccagtgag ctgccccaaac 180
caggtagaac agtgagcact tggaatgccc atgttacact cgttatataa tttggtggtc 240
ggtgcagtat tacttgtcat gtctgcat 268

<210> 44782
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-A8

<400> 44782

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tttcaaaaat taaaaaaaag caaaagccaa aaaaaaaaaa caaaaaaaaa caaaaaacaa 120

aaaaaacaaa aaaaaaaaaa aaaatagaac aacaaaccta caaaacagaa caaacaacat 180
ctacacacca attaaaacaa ttagcacata caaaaccaac ataacaacat atacataatc 240
caaattaaat aaac 254

<210> 44783
<211> 89
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-A9

<400> 44783

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gcataatttat catttttcgaa cgtcctcaa 89

<210> 44784
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-B11

<400> 44784

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cccctgccgc cgcccctggt cttctcttac aactatgcc gtgagcaggg aggggtttcac 120
accttgcggtg cgtttatgca gcttcggatc tatccgcggg caatcattgt acgatccttt 180
cgaaacacgg gatctgtggg ggaagggttat ccggaccaac tatcccgaat cggcaggggag 240
cagtccacac tctaacctga tagcttcaag gagctgaggt gatatgacct ccttttcgcc 300
ctcgtctgtg ctactttccc ttgagctttt ctgggccact tctgcgcccc agcctctgta 360
caagatcact ttgttggttt ctcgtgacac tagcaccgat 400

<210> 44785
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-B12

<400> 44785

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cggtgctcgt gcttgcgcta tggatcctct actttctgtt ccccttgatc tcgctccggc 180
tcctccaccc gatccagatc ataatccggc cggacgccgt gcgcatgcag ctgctcgggt 240
tcataatctg cctgttcgtg tccggtgccg ggttctactt caagagccac aggtggaggg 300
ctgcccacat catcgtcatc gccctggtec aaagcacgcg caatggcata ctgtacgcgt 360
t 361

<210> 44786

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-B4

<400> 44786

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cctgaggcat catagatgga tataccaggc cggcctgaaa ggcgagtcgc tcggcctaca 120
caccgtgacc ggaagctccg ccgtggaatg ggccggcccc ggcggcggca cgcagccgct 180
gacttggcac aaggccctgt tcaacgcgcc ggctgggagc gatccggtgg ccctggacat 240
gggcagcatg ggcaagggcc aggtgtgggt gaacggggcg cacgcctggc gctactggtc 300
gtacagggct cactcccgcg gctgctgtct gtgcatctac gcctggacgt accgcgagga 360
ccagtgcacg ttcaactgcg gcgacctctc ccagagatgg ttccacg 407

<210> 44787

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-B6

<400> 44787

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tgcgcccgaag cattggatgc tggacaagct tggcggagct ttgctcca agccatcttc 180

tggacctcac aagtctaggg agtgcctgcc actgatcctc atcatcagga acaggctcaa 240
 gtatgctctt acataccgtg aggtcatttc catcctgatg caacgccatg tacttggtga 300
 tggcaaggtc aggacagaca agacctaccc tgctgggttc atggatgtca tttccatccc 360
 caagaccaat gagaactaca ggctgctgta cgataccaag ggccgctttc gccttcaccc 420
 aatcagggat gaggatgcta aattcaagct tt 452

<210> 44788
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-B7

<400> 44788

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 agcaggctgg caccgtccgt aagaacggct tcatcgatc caagaaccgt ccctgcaagg 180
 ttgtggaggt ttctacctcc aagactggta agcatggcca cgccaaatgc cactttgtcg 240
 ccatagacat attcaatggg aaaaagcttg aagatattgt tccttcatca cacaactgtg 300
 acgtaagtta atttctgtct gttctctgtt tagctaagtt attttgatag ttcacttcat 360
 atgttactga caagttcaat attttttaga ttccgcatgt gaaccgtact gagtatcagc 420
 tgattgatat ttctgaggat ggaattgtga gccttcttac 460

<210> 44789
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-B8

<400> 44789

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 ccaggaacat ggcgacgtg gatgacgatg gtggggagga gcagcagcag cagcatgcgg 180
 gcgttgacgc aatgcggagg ttcaagtccg ggaggagagc tgcttcgtgg tgagactagg 240

cgctggccgc ggcagctgtg ggcgatgagg actaggggat ggagatgccc gacagccagg 300
acgctgagca gtggttccgg cggccggtaa tttatgttgt ggcgagaagg cgggaaacga 360
ctggcgtcgc cgggaccctg cgactgtgga tgccgatagg tgaaaccgac tgtcctaggc 420
gtctcgagct 430

<210> 44790
<211> 127
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-B9

<400> 44790

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catattcatc ttcgtcgaac gtcctctatc tcccatctct gtaacctcac atagcatatg 120
atgaatg 127

<210> 44791
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-C10

<400> 44791

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ctgagagcat ccctgcatgg aatgaatact ggcgtcctac taatacaacc agtggttccat 180
ctctatcaga tgattctagt gcacaaactg cgcatcactc aatacacctt ttagactgca 240
agactcatac aaagcaattt acaccacttg actttgattt gagcacccaa gtcaagcaga 300
catcatcagt ttctcatgct acagcagcta cgatgccatc tagtcaacca caacca 356

<210> 44792
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-C11

<400> 44792

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caccactatc aaggcctcat ctagatcgcc aaacggcaac cataccgcac ctataccact 120

acacatacca gctacaaaga tcacccctgc ctggaacgaa tactcgtgtc ctactaatac 180

aaccagtgtc ccatctctat aagatcctac cagaccacaa acaacacacc acttaataca 240

ccctctatac tgcaatactc atacaaatca ctccacacca cttcacttcg atttgaccac 300

c 301

<210> 44793

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-C12

<400> 44793

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cgggccggcg gccgagaaat gcccggtggc gccttctctc tcaacggcag cggcggcggc 120

atggcggact acggcggcgg cctcaccgta cccgtcgtcg tgacctgcct catggcggcc 180

tccggcggcc tcattcttcg ctacgacatt ggcatctcag gaggtgtgtc ggagatggag 240

gatttctga acaagttttt ccccggttg ctcaagagga cggcgcgcgc caacaaggac 300

gtgtactgca ttacaacaa ccaggcgtg acggccttca cgtcgtcgtc gtacgcgttc 360

ggcatggtgg ggac 374

<210> 44794

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-044-Q1-K1-A1

<400> 44794

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tattgcgtga attcattatc catcttcttt ctataattgg gatctttgtt tgatgtcaac 180

cctgtgattg ctctctgcag aggcttacga ttcgctggat ccaaattggca atatcactat 240
 aaaatgggat atcatgcaat ggactcctga tggatatgtc gtaagtagaa ttgcccactc 300
 taacagctgt atctctttca tctccagctt ggtaggccct ggttttattct attaaatagc 360
 cccatttgac ctgtacaata taagttaatg taacatggtc aatggctgat ttggaa 416

<210> 44795

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-E10

<400> 44795

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 ctcatctccc aatcttaaac tctcctacca aacgcttaaa ccctctttta acttaatcca 180
 cacaaacgac aaccatacaa tatcaaccaa ttatataact tcacctccat cacattcact 240
 aattaacact acctacataa ct 262

<210> 44796

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-E11

<400> 44796

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 caagctggtg ctggggcgccg cagcccgacc ccgcctcgt ctggatccgg cggaacggg 180
 tgcgaagaaa ataaaaccat ttgggtcggt gacctccagt actggatgga tgaaaactac 240
 ctacataact gcttcggggc cagcggcgag gtgggttacia taaaagtatt ccgcaatagg 300
 caaacaggac agtcagaggg gtatggattt gttgagttct tttctcatgc atcagcagag 360
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 aactgggcat cgtatagcat gggtgaaaag cgatctg 457

<210> 44797
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-043-Q1-K1-E12

 <400> 44797

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 caagctggtg ctggggcgccg cacgccgacc ccgccctcgt ctggatccgg cgggaacggg 180
 tgcgaagaaa ataaaacccat ttgggtcggg gacctccagt actggatgga tgaaaactac 240
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 caaacaggac agtcagaggg gtatggattt gttgagttct gttctcatgc atcagcagag 360
 aaagctcttc agaattttac tggtcatgtg atgccaaaca ctgaccggcc atttaaattg 420
 aactgggcat cgtataacat gggtgaaaag cgatct 456

<210> 44798
 <211> 177
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-043-Q1-K1-E2

 <400> 44798

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 gctgagccaa atctccaaga tcacgacacc actacaatga gaccatgctt ctcaagatta 120
 ttagacaagc agctacacta tcaaccaatg actgattcac tactaccttc atgacat 177

<210> 44799
 <211> 159
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-043-Q1-K1-E3

 <400> 44799

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ggccagtgga cattctcaaa cccaaccccg caacctcccg tgaccaagcc accgccgccg 120
 ccaaagggaa gaaccgccgc cggggccaag ggcttccgc 159

<210> 44800
 <211> 208
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-E4

<400> 44800

ctctctcgta gcgcagaatg aaacacacct tacacactac aagcctacct tcgctacggg 60
 gccaaagccac ttctccaaac ccaccacacc agtctcaagt gccaggaag caacgcgccc 120
 caaaagcagc agccgaccaa tgcaccacgc acgtcggcag tactacctgc agcacatcca 180
 taacctacag atctagatcc ggcacaag 208

<210> 44801
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-E5

<400> 44801

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 cagaagcaga tggcgaccaa tgcagcacgc acgtctggcc cgtcatcctg cggcgtgaag 180
 aagccttaat gtttacgacc gggcacacga tgcgctccga gagatccgca agtaccagaa 240
 gagcacgcag atgctcatgc gtaagctcgg cttgaagaag actggccgtg tgatcgcgca 300
 tgacttcaag accgacctca gattccaatc ctgatgcgtc atcgatctgc acga 354

<210> 44802
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-E6

<400> 44802

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cagaagctga tgatgacaaa tgaagcatgc ttgtttggcg cgtgatcaaa cgctgtgtac 180
attccttaat gtttacgcca gcctaacgca tcgttccaat agatccacaa gtacccaaag 240
agctcgcaga tgatcatgcg taagatcagc tcgaagaaac tggtcctaata gatcaggcta 300
gactactaga cctacctcag atccaatatc ctgatgcac atttatctgc tcaaggcctc 360
tggtgcctag cttgtagtga tgttgagcga ctctaacatg tgctaca 407

<210> 44803
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-E7

<400> 44803

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agtactctct ttggtgtatt cgatggtaac gggggcaaaa atgctgcata gttcgctgct 120
gagaacatgc ccaagttttt ggccgatgag ttcaagaagg tgaacggcgg acgagagatc 180
gaaggagctg tcaagagggg ttacctcaag actgacgagg agttcctcaa gagggacgag 240
agcggcagct cgtgctgctg aacatccgtt ctacaaaagg gtggtctgat cttctccaac 300
actacagact gccgtgcggt tctcagtcga gcagggaag c 341

<210> 44804
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-E8

<400> 44804

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atgactctct ttggtgtatt cgatggtaac tggggcaaaa atgctgcaga gttcgctgct 120
gagaacatgc ccaagttttt ggccgaggag ttcaagaagg tgaacggcgg acgagagatc 180
gaaggagctg tcaagaggag ttacctcaag acttacgagg agttcctcaa gagggacgag 240

agctgcagct cgtgctgcgt aacatccggt ctacaaa

277

<210> 44805

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-E9

<400> 44805

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ggttctttta taagagctaa ctgctgttca ctcaaagtca aaccggaagg cttcatctgc 120

gagcctaaaa actggtggaa aggcttcagc cctttctaaa ggtgaggcaa gcaaaggaaa 180

agcatacatt actgacaaag gtgcaaaggg ttcttcatca catgcagtgc ctaccaagtc 240

tgatgcagaa ctaaattctag agcttgatat ccctccaaat tctagaatgc taatgaattg 300

tgaagcagct gaactattgc aagaaattca cgagcacatg gccatactat cagaggaccc 360

caagatcaaa attcctgagt catttgacaa aacttttcag tattcaaaag atggaaatca 420

tttcaccact gcaagctc 438

<210> 44806

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-F2

<400> 44806

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tagactgtag cgacttataa gatagcacta ctccgatggg accaaacttt actcgtcatc 120

ctcatcgtcg tcatctgcgc cgcccgaaga gttgacttgg ttgagccttt caatgagact 180

ggccttactt tgctcgtat 199

<210> 44807

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-F5

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 tcagaagtta aatctgtttt atcaacctgg gccgtgaagt gcctttgaac agcatcaact 180
 aactgctccc tggatggatt agggcatgca tctgttcac aaatgcagtc agtcagaaca 240
 atgaaacata attggctact tgcaattgat agtacgacct tgtctagaaa tttgagctct 300
 acttacgaga ttgaagtggc gccaatatct caacagtgc gtcagttcta acttgctcat 360
 gtcaactttc tgcactgtta ccagtcaaaa gaatgtaaag ata 403

<210> 44808
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-F6

<400> 44808
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 cccatagacc aagaccaata caaaaaagca caccgccaac acctcacacc ataacaatac 120
 aacctacaag acacaaaatc taaacacata ttatcaacca atacccaaaa ccaccttaaca 180
 acaacatcaa caaacacctc cctataaaaa tcaaggcaca catccactac acaaatacaa 240
 acaaccacaa caaca 255

<210> 44809
 <211> 168
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-G10

<400> 44809
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 caaccacaa cactaccacc cctacatcta tacacacaca tctcatcac aacccaaccc 120
 caacaatacc aatatcacac caccactatc ccactcacac cactacta 168

<210> 44810
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-043-Q1-K1-G11

<400> 44810

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gcgggtctgga gttggaagaa cattcacaaa agaagttggt gaggccatgg ctcccttgaa 60
tgagtggcct atcatcttgt cactggcaaa tccaacctct cattctgaat gtactgctga 120
agaagcatat aactggactc agggtcgtgt aatatttgcc agtggcagtc catttgaccc 180
tgtggagtag gatgggaagg tttttgtacc tggacagtcg aacaacgcct acattttccc 240
tggatttggc ctcggtcttg ttatctctgg agccatccgt gtccacgaag acatgcttct 300
tgccgnctcg gaagcactag ctgctcaggc cacacaggag aacttcgaca agggatcaat 360
cttcccgcgc ttcaccaaca ttagaaagat ctctgcgcgc attgccgcag ccgtgggtgc 420
aaaagcttat gaactcgggt tggcgacccg tc 452
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<210> 44811
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-H10

<400> 44811

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ccccccccca cccaccccc ccaccccccc acaccacccc cctcctccac acccccccca 60
ccccccccac ctctcaccac cccccccac cccacacca cccctcctc ccaccccccc 120
tccaccccc aacccccccc cccccctacc cccccaaacc ccccccccc ccccccccc 180
ccccacccc cctccctccc tcccccccc ccccccccc accccacccc ccccccccc 240
ccccacccc cccccacccc ccccccccc cccccctacc ccccatcccc caccacccac 300
accccccccc ccccccccc catccacccc cccacccac ctcccccccc ccacccccac 360
cccccc 365
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<210> 44812
<211> 375
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-H12

<400> 44812

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aatttaaatt ggcccttccc caatcattaa tagctctcat actactaaca tatttcaagg   60
ttcgatcatc ctatatagca ctcatctggc ttgtttctcc tgcttttgca tatggctttt  120
tccaagctac tctctcccct cttcgcctac ctaaacacct taacgttctc accttcgttg  180
tccatttctt tgcaccactt ctctcttctg ctcccttggc tattcgcatc tcctatgtaa  240
tttttccaac tatattacct atttacaaca atcctaccct actaccacac tctctttaaa  300
atctaatacc tcccccttcc atttcttttt tcatttgttc cacctttgtc tatctgcttt  360
tataccttca tatct                                                    375

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<210> 44813

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-H9

<400> 44813

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gcgaaaaaaaa cagaaaaaaaa caaaaattaa aaattaaaaa aaaaaaaaaa aagggcgtgg   60
tctcggggtc tagaaccgag cctcaagcgg gcaggccacc cagcactcag gctagatagc  120
tcatcacagc cacagcagct agaccctagt agctcactcg cgctcgtgcc atgatgaata  180
cccgagcctg tggcagcggc agtggcggca ggaacgacca gaccatgatg ggcttctccg  240
agcatccgaa gccggcggcg tcggggcagg cgcagccgtc cccgccgtcg tcgccgagcg  300
agcgtccgcc agcaggccgc gggcgccggc gcgcgcagga gcccgggcgg ttccctcggcg  360
tgccggcgcc gccgtggggc cggtagcgcg cggagatacg cgacccacg accaaggagc  420
ggcattggct gggcacgttc gacac                                                    445

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<210> 44814

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-D8

<400> 44814

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ttgactttta cagatgccta ccatcataac cgtctcaata acgctgcaga cttcactacc 120

cagaacatgc cctagtctat agcctatgag cccaataaag tgtacggcca acgacagatc 180

taccgacctg tcaagaataa ttacactcat acctacaaca aattcataaa caaccacgag 240

agctgcagca cttactacat aacatccatt ctccaaaaat tctatactga tcatatccaa 300

cactacaaac 310

<210> 44815

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-B2

<400> 44815

cccacacgta ctctacatg tacaactatt ttaccactac caacatacct tatccatgag 60

tatagattta atcgccaata actacatacc tatacatact atcgaaaatc attacattca 120

caactatctc ccatatacta tgatccaaag aaaaattcac acttaccatc ctgtcac 177

<210> 44816

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-B3

<400> 44816

gacccacgcg tcctcccaca cgtactctta catgtacaac tattttacct caaccaacat 60

accttatcca ttagtatatg tttaatctcc aataaccaca aacctataca aactatcaaa 120

tttcattaca ttcacaactc tctcccatat actatcatcc aaataaacia tctcactttt 180

catcctgtca ctccaaa 197

<210> 44817

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-B4

<400> 44817

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gagaggtctc ttacgcatga ctcccaaagt gctgcacacg gctgtagcta taccgcatgc 120
ttcgatcgac acagatacac tgcgcagatt atagcttacc tgataccact gcgccacatc 180
tatgcatgca aggatcccaa ttccgctcat cgccagcact tctcccatgt ggagatcgct 240
gccttctagg cccaggaac aaaacgtact agctcaggac gactacgact actagg 296

<210> 44818

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-B5

<400> 44818

gaaaacccgg ctcgaccac tcatccgcc actcatccac ccacacgtat ttcgattaca 60
acaccaccaa catccaaacg agctttgttt aattctaaaa ctcaccaccc ccaaactcct 120
acacacaact caatctatac ctcatacctc tatccacaca catacactca tcaaaatata 180
ccttacctaa taccactcct ccacatctat acatcctacc atcccaatac cactcatcac 240
caa 243

<210> 44819

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-B7

<400> 44819

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gtacatttct aactctcctc ccatacacia catacaactc ttatcaccca tatactgcat 120
ctttctatca tctcatgaac aatgcaaacc ctacttaact aacagcaacc ctcttaaagt 180
actatactta actttcttcc caagaccatc atcatcaact tatacctatt agtactatat 240
gaaacacaac aatctcttac ccaaactatc cttacatcat caacttctac atatctcact 300

gcattttcatc acttatatcc aattccataa caaacacact ttcgctctgc acataatcca 360
caaaatctac atctcatatt attcatctaa catactatca tcatacacat 410

<210> 44820
<211> 148
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-C1

<400> 44820

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gatggagtaa atggccatct atcgcacgat cgttgtacca tgcggcgat cttgacgact 120
actatgcagg ccgatacgtg cttatccg 148

<210> 44821
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-C11

<400> 44821

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tcatgtactt gtttattctc ccactgccct agtgcttacc cttacacttc cctaaccxaa 120
tccctctatg atcaaactca cccattcata aacaccctcc catatcacct attcctcttc 180
ccatgtatat ctctcccaac caatcttata catcacatgt actgtgttcc ccttacctct 240
ctctcaaata taatcctcag ctcccaagct tatatgtacc tacatcacac acgtcatttc 300
ccctaccctc atcatctgcc aacc 324

<210> 44822
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-C12

<400> 44822

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tgctatggat cttcgggcaa aagtgcttac ctatgatcca aaagcaagaa tcagtgtctca 120
 gcaggctcta gaacacaggt acttttcata gttacctgca ccaacaagac catcgagct 180
 tccaaggcca cgtcggaaag gagatcaagg gaataacaag attcctgata tcaacctgca 240
 ggatggccct atgggtgctct acccggcaag aaagttacgt aggggtgacag cgcataaagg 300
 gatggaaggt atgcacagga cagataaagt ggacgaacat ccttctggga tgaggcacac 360
 tgatgacatg cccaatcaga gttctagaat tccaatgtca attgatgttg gggctgtgtt 420
 tggcacacga cctgcaccta ggccaacatt gaac 454

<210> 44823

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-C2

<400> 44823

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 gaaaggattt gaagcattaa ctgagatata gaatttattg aatgacaccg ctgatcaagc 120
 actggctgtt agagaaagct taattgctgc tgcgagcaat cgctttttta ctgttatccc 180
 ttctattgat cctcatatta tacgggatga ggatgattcg atgctcaaag cgaaaatgct 240
 tggagctgtt gacgatattg gaactgcttt aaagatagtt ggcttcgata gcgacagtga 300
 tgaatctctt gatgactaat gtatgaaact tcaactgtgac atcacccgc tggctcacga 360
 t 361

<210> 44824

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-C3

<400> 44824

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 gagagatctc gtacgcatgg cccacaatgt ggtgcacacg gctgcagcta tagcgcatgg 120
 ctcgatcgac acagatgtgc tgagcagatt atagcttacc tgatgccact gtgccatata 180

catgcatgct aggatcccaa ttccgctcct cgacagcagg tctcccatgt ggtggttgct 240
gcttacgatg ggcgaggtag aagacgtact agctgaggac gactacgact acgacgagga 300
c 301

<210> 44825
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-C4

<400> 44825

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gataggggtc gtaccataa ctgacatact gctgctcag gctgacacta ttgatcatgc 120
actgactgac acagatagga taatcatatc atagagcacc tgctgccact ctgccatatc 180
tatgcttgct actattataa ttccgctcca ggataacacg actctcatat cgaaattgct 240
gactactatg cagcatattg aaaccgtact agatctgggc gactacgact acaacgagga 300
a 301

<210> 44826
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-C5

<400> 44826

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gagagatctc atacgcataa ctaacacact ggtgctcact gctgactcta taccgcatgg 120
ttcgaccac acagatgtac tcagcatatt atagcttacc tactaccagt gtgccatatc 180
tatgcttagc cactatcata attccgctca tcgataacct gtatctcttg tt 232

<210> 44827
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-C6

<400> 44827

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tcttattgtg cacatgaacg atgcgcaccc tactaaacga acagcaagtg tgttaaaata 180

ctttacgtaa cttccttccc atgacgatga tgggtcaacat ctccctatta gtgctctctg 240

taacacatca ttgtctcacc caaatgatcc ttacttcac aacttgcgca tattagaatg 300

catggcatct cttatatgga atggctagca aaacactcgt tctcttgac atgatcagaa 360

tatacacatg ccatatcatg cagctcacat aattggatca tacacaatga cata 414

<210> 44828

<211> 87

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-C7

<400> 44828

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gatatatcaa tgatccatca cttacat 87

<210> 44829

<211> 129

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-C8

<400> 44829

atcggtccgcc cactcggtcca cccacacctc atacacatca tacaccacct ccaaacacac 60

aggccgagtt taattcaaaa aaccataaca tcaatactac tcaccatagc actacatata 120

acgcaaccc 129

<210> 44830

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-D10

<400> 44830

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ctgtatgaac aaatatctgg cgaaaaagaa caaccataca atgctgtcaa agcaaagctt 120

atattaagca cctcacaatt gccactatca ccattaacac catacatccc aaatatacca 180

taaaaaatat tcaaccctac atgaccagta cacaccattg ataacagcac acacacacat 240

cacatcaata ctctaaacat tacaaccaa cacaccgtac aagtccacag actctccagc 300

accatcatca tctgtcagtt gacttataac tgtgatagta cagagctgtc aatggatcac 360

caacacctgc aacagttaaa cta 383

<210> 44831

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-D12

<400> 44831

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ggctgtaaaa acagggatct ggcaaaaaaa aacaaccata caaggctgtc aaggcaaggc 120

ttctagtaag cgcctcgcaa tggccacgat caccatgaac accaggcatc ccaaagagac 180

cgtaaaaaag atgcaaccct acatgaccag tacacaccat ggagaacagc acacacacac 240

aacacatcaa gactctaaac atgacaacca aacacaccgc acaagtccac agacgctcca 300

gcaccagcag catctggcag ttgagttaga actgtgatag tccagagctg tcaatggatc 360

accaacgcct gcaacagtaa aacgaaagag gacctggaca ctatggcaac ctaaaaagaa 420

ctta 424

<210> 44832

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-D2

<400> 44832

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gctggaccag gccggtagcg gcaagggact actacgatgt gctcaggctc agcaagagcg 120
ccagccaggc agagatcaaa aaggcctatt attggctcgc aaagaagctc catccagaca 180
caaatctggg tgatgcgtat gcacaacgca cgtttcaaga ggttcaacga gcttatgaga 240
ctctcacgga tgaacaaacg tgatcattat atgatcaggt tggccctgat cagtatgaga 300
aaactgctac tggcggaggc tgaactggct catagggtag ttatggaaat tcattttagg 360
ataattttgg tggcagcatt tgctggagcc gtattggaat gaatgattc 409

<210> 44833
<211> 149
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-D3

<400> 44833

atcagtcatc gttcggcatg tctccttcct atcgactag cagcatgcga tggcgatggg 60
gctgatccac atctacaaat gcacaacact actatgacgt gcttaggcat caaagcagtc 120
caatacacgc agagatcttt tcagcctat 149

<210> 44834
<211> 100
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-D4

<400> 44834

atcagtcgta gttcggcatg tctcactcct tacgcactag caccatccgt tcgctacggg 60
gccgattcac atctccaaac ccacgacact gctatcaagt 100

<210> 44835
<211> 127
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-D5

<400> 44835

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gtcaattcaa ttgtccacac ccaccacact gctctcaagt gctgaggatg taacgcttcc 120
caagacc 127

<210> 44836
<211> 127
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-D6

<400> 44836

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tccaattcaa atctccacac ccaccacacc actctcaatt gcactcgaca taactcaacc 120
caatacc 127

<210> 44837
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-B11

<400> 44837

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gtgggagcgg cggcgaaggg cgagctgtag gccgaggagg aaaccctcgc gcgcgcaagc 120
ggatgtcgac ggcgacggcg acgcggtaca ccgcggcgcc taaggcgggc gccctccgcc 180
aaagggacac acaactgcc a ccggcagcgg cgggtttttc tgctgctacc tgctccggtc 240
cctctgcccg cgcagcaaga gccgcaccta catcggcttc acggtgaacc cgcgccgccg 300
tatccggcaa cacaacggcg agatcgtcag cagcgcgtgg cggaccgggc gcggccggcc 360
ctgggagatg gtgctctgca tctacggctt ccccttcaac gtcgtcggcc ttcagttcga 420
gtgggcgtgg cagcacccga 440

<210> 44838
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-D7

<400> 44838

ccctctcggtt gtcccgcatc tcatacatTT tcttctctct gtctatacgt atatgccgaa 60
gttaatctaa ttgatcacac cgatcacacc tgactcaata gcgctgcatg ttactctact 120
cagaacatgc actagtttta tgaaccatgc gtcgtatact gcgtatggtc aacgtcagca 180
tactctact tatatgaatc agttacctcc atactgtcca caaatccatt aagactcaac 240
aatgacacat ctcttgctac ttaacattta ttctacaaaa cttgtctata aatctcat 298

<210> 44839

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-G1

<400> 44839

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cgccctcgac tcgcttctcg cctcagcga cgacctcgtc aagtccaatg ttttcgtgga 120
gggcgtgtca cacaagatcc ggaggcagat cgaggacctc gagcgcgccg gaggggtcga 180
gagtgggacc ctacccgtcg atggcggtcc tgtcgacacc tacctcacca ggtttgtgtg 240
ggatgagggc aaatacccca caatgtctcc gctcaaggag attggttgga gcatccagtc 300
acaggttgcc aagattgagg atgatatgaa ggtgcgagca gcggaatata ataatgtaag 360
gagccagctt agtgcaatca acagaaagca aagtgggagc ttagcgggtc gtgatctttc 420
caatctggta aaaccggagg atatgatcac ctccgaaca 459

<210> 44840

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-G4

<400> 44840

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cggcttcaag atgcagatct ttgtgaaaac cctgaccggc aagactatca ccctcgaggt 120
ggagtcgtct gacaccattg acaacgttaa ggccaagatc caggacaagg agggcatccc 180

cccagaccag cagcgggtca tcttcgctgg caaacagctt gaggacgggc gcacgcttgc 240
 tgactacaac atccagaagg agagcaccct ccaccttgtg ctccgcctca ggggagggcat 300
 gcagatcttt gtgaaaaccc tgaccggcaa gactataacc ctcgaggtgg agtcctctga 360
 caccattgac aacgtc 376

<210> 44841
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-G5

<400> 44841

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 atgttctaaa tcttcgagct gataggtgct ggaggggaaga aggtgctgaa gttatgctag 120
 aactatcaga taccaataag tgggtgatag ttgtgaagat acaaggtatt actaggtatt 180
 cacttaaacc ttcagatgtt aggtcatatg tcattaatcg tcattctcaa gcctacatgt 240
 gggcagttga tgatgcatgg aaacttgagt tcaactgataa gtgggactgg ctggtattca 300
 aagagctgca atgtgtgggc cgtgagcgta attccaaggg aagacaatcc caattcct 358

<210> 44842
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-G9

<400> 44842

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 ggccgtggtc aaatgacagc ttcccagagt acgcggagga cattgaagct ggcggagatg 120
 cggccccctt attttcaatg atgtcggagg ttgctcgcag cttacaagtc actcttgttg 180
 gtgggtccat agctgaacgt tcgggaaaca acttatacaa tacatgctgc atctttgggtt 240
 cagatggcaa acttaagggg aaacatataa agatccatct ttttgacatt gacattccag 300
 gaaagatcac tttcaaggaa tcgaagactc ttactgctgg gcattatcct actgtttag 360
 acacagatgt tgggcgaatt ggtattggga tatgttatga ca 402

<210> 44843
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-042-Q1-K1-H11

 <400> 44843

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 atgggcgccg ggggcactgg aactggaggg aaggcgaata agggagcggc cggtcgcaag 120
 gcctgcgggc cgatgaagaa gtcggtgacg aggtccgtga aggccgggct ccagttcccc 180
 gtcggccgca tcgggcgcta cctcaagaag ggccgctacg cgcagcgctt tcttcagcgg 240
 tgcccctcgc tacctcgcgg cctgcctgga gtacctcgcc actgatgtcc tggagctcgc 300
 cggaacgct gccaaagaca acaagaagac gcgcacgctc ccgcgcc 347

<210> 44844
 <211> 174
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-042-Q1-K1-H7

 <400> 44844

 caaaaagaaa aaaaaaaaaa agaataaaaa attttaaaaa aaaaaattta aaaaaaaaaa 60
 aaaaagaaat tttttaaaaa aaaaattaaa aatttaaaaa accaaaaaaa aagaaatgaa 120
 aaataaaaaa aataaataaa aaaataaaaa aaaaaaaaaa aaggcgcccc cctt 174

<210> 44845
 <211> 292
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-042-Q1-K1-H8

 <400> 44845

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 gtatcacatc tggttctttt gagatttcaa atcaaagtca attcaattgc tattgtctgt 120
 atgaggtcga tggacagagg cccagagcac acaataaata gaggttttta tgtagctgaa 180

ggtgcaaaaa tgtgtagtgt ggagcaggtc aaggttgacac aagctcttta tgtatctggt 240
 agcctgttca atcactcatg tcagcccaat gtgcacgcat attttctttc ac 292

<210> 44846
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-H9

<400> 44846

ggtcgaccac gcgtgcggta caagttgatg ctgctccatt caagcagtgg taccttactc 60
 actatggagt ggacatgggt agggggaaga aggtgcctgt tgctaagaag gatgcgactg 120
 agggacaaga ggggtgaggct atagctgagg aaacaaagaa gagtaaccat gtgcagagga 180
 agattgagaa gcgccagcag gaccgtgcac tcgacactca tattgaagag caatttggca 240
 gtgggagatt gatggcctgc atttctgccc gtcctgagca gtgtggccga gctggtgggt 300
 aaggactact ggaccatttc acctagcttc agtagcttac agtttccacc tgaaatttcc 360
 tagcatttgc tgggcattat tttttatt 388

<210> 44847
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-A1

<400> 44847

cccacgcgtc cgcctaaata agccatcgat tcaggctctt atccatgggc tgaacagacg 60
 ctactactcg attgcaatca attaccgaaa aatgaactt gaggagaaaa tgttgctgaa 120
 cttgcacaaa aagaaatgga cagatgggct aattttgaag aggtttgaca ctcattcaaa 180
 aaccaacgag cagactgtcc aggaaatgct aaacctagcc atcaagtaca acaaggcggg 240
 gcaggaggag gacgaactgc cacctgagaa acttgcgata gcaaatgtag gtcggcaaga 300
 tgcaaaaaag catttgaag agcatgtgtc caatttgatg tcatcaaaca tagttcagac 360
 cctaggaacc atgctcgaca cggttgtatt ttaagctcta ct 402

<210> 44848

<211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-043-Q1-K1-A10

 <400> 44848

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 atactcatac catggaacct ttcaatactt taaagggcat tcaaaattaa cacaccaat 120
 atcctacata aaaccttcac tactatcata ctactaaac ctacataact tcatacaaat 180
 atttaaacia ctaccttctc aataacattc ctcccctcaa ctccaataag ccatcaaac 240
 catacaacat aaatcattaa attaattacg acttacactt acaaaatctt acaact 296

<210> 44849
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-043-Q1-K1-A11

 <400> 44849

 aatacccggg tcggccgact catagctcc ctctcccctt cctccctac ctctattttc 60
 gggccgccag aggcaatttc accctcggtt cttctctcaa ttccggcggg cgctacaaa 120
 attccctccg ccaagctcgg atctgaacgc tgcgctccgt gtcgctcgtc gaatccgcca 180
 tgaacggggc caaatccaag ggcgccgaca aggccgatgc caagctggcg gtgaagagca 240
 agggggcgga gaagcccgcc aagggcagga aggggaaggc cggcaaggac cccaacaagc 300
 ctaagacggc tcccagcgtt ttcttcgtgt tcatggagga atctcgcaag gagttcaagg 360
 agaagaacct taataacaag tctgtccctg cgggtgggaaa agcttctggc tacaggtgga 420
 aatccctgag cgagtcctac aaagctccct a 451

<210> 44850
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-043-Q1-K1-A2

 <400> 44850

cccacacgtc ctccctacatg tgccattatt ttaggttttag caacatacgc tgaacataga 60
gaactaggcg attgcaatca actacagacc gaatcaacct gtcgagaatc tgtcgctgta 120
cttgtacatc caatatagga caatcgcgct aaatatgaag agatttcaca ctgacacatc 180
tacgaatgat cacactgtac tgcaaatgct taagctcacc atgatgtaca tcaaagct 238

<210> 44851
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-A3

<400> 44851

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caacacacac acaacactcg cataaatcta aaacccatca accccaacc acaacaaact 120
aatgaaactc aatcacttca ctataacaac acatatacaa caaacagact aaatattaac 180
acataccaca ctcacacatc caccaattat cacactatac taaaaatcct aaaccacacc 240
aa 242

<210> 44852
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-A4

<400> 44852

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gctatctgca tttatggttt gtttggtttc tagagactaa tttttaatac ttctatttta 120
ttccattata acgcttaaat tactaaatac tgaatctaaa tataactttta gtctacatat 180
ataccagctt aggtactaat atcgattata atggatagac ttaaaattag tccctagata 240
ccaaacaccc ccttactcag acacctgtta tctcatggac agatagcata cctgctcgac 300
tactactacat agacaggagc cgctccttgg ctcatggatg ctgccatcca aggcgcttat 360
tatgcagaca agcctgtctg ttgcttgaat attgcatatg aagctgttta atggac 416

<210> 44853

<211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-043-Q1-K1-A6

 <400> 44853

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 gagagatctc gtacgcatgg cccacacagt gctacacacg gctgacgcta tagcgcatgg 120
 gtcgaccgac acagatgtac tcagcagatg atagctcacc tgataccact gcgccacatc 180
 tatacgtgcc acgatcccaa ttccgctcat cgacaacacg tctctcatgt ggaggtagac 240
 gcctacgaag ggcgacgtac aagacgtact agctgaggac gactacgact acaaggagga 300
 ctaggatccg gaagaaggat gagctgagct ggagctggat cgaacagccc agggaagagg 360

<210> 44854
 <211> 218
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-043-Q1-K1-A7

 <400> 44854

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 aaatccatta ctcatcacc ccacatctat acacacaact caactatacc acattattcc 120
 atccacacac ataaactcat caaattataa atcaccttat accactactc cacatctata 180
 cttactacca tactaatacc aatcatcatc aacacact 218

<210> 44855
 <211> 455
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-043-Q1-K1-A9

 <400> 44855

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 gggtcgaccc cgattcgtcc gcccgcgacc gggattccct ccgccaagcg cggatctgaa 120
 cgctgcgctc cgtgtcgtcg ctcgaatccg ccatgaaggg ggccaaatcc aaggcgccg 180

ccaagggcca tgccaagctg gcggtgaaga gcaagggggc ggagaagccc gccaaagggca 240
 ggaaggggaa ggccggcaag gaccccaaca agcctaagag ggctcccagc gctttcttcg 300
 tgttcatgga ggaatttcgc aaggagttca aggagaagaa ccctaagaac aagtctgtcg 360
 ctgcggtggg aaaagctgct ggcgacaggt ggaaatccct gagcgagtcg gacaaggctc 420
 cctatgtagc caaggctaac aagctcaagc tagag 455

<210> 44856
 <211> 288
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-043-Q1-K1-B1

<400> 44856

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 caagtctgat ccgatatact atgatccaaa gaaagtttca gaccgtgcat cctgtcatca 180
 tccaagatcg ctgacctgta tattcagaag aagatgaaca ccaagctgaa ctcgaagctg 240
 atgagcactg ttatcgaaat gaatacaata atagtgaat gcgtcatt 288

<210> 44857
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-F9

<400> 44857

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 atcacgcgct gactatgatg gctcggggcg cccttgtctt cggcgcggtg ctccctcgcg 120
 cctccgcccgc cgcggtctac gggttccacc tgggagggga cgagagcggc ctcgtgaggg 180
 gtgtgctcgc cgcgctccgc gagcgagccg aggccgagga cgccgctcgc ttcgccgtct 240
 cccactacag caagaacat ggctccgctt tggagtttac taggggtgctc aaatccaagc 300
 ggcagggtggg gaccgggacc ctgcatgacc tgatactgga ggcagctgat gctggaaaaa 360
 aga 363

<210> 44858
<211> 296
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-042-Q1-K1-C6

<400> 44858

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cggaagcggg cccgcgacta caactccgac gacgaggatg aagctgggta cgaccggcag 120
caggagcacc tgccgaatcc tcaacgccgc gttgacgagg acgacgacga ggccctctct 180
cactccgagc cggaggaggg cgaggacgag gacgaagagg agggggcctc cagctcggcc 240
gtcacgaggt tcgagcaagg ctgcanggcg ttccgcgtcg cttttctcaa gatcat 296

<210> 44859
<211> 281
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-042-Q1-K1-C8

<400> 44859

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cggctgtttc atcctggctg tccctcatct cctcgtaccg ctttttcagc gcctacgagg 120
cgccccgctc gtcggcgctc ggagcaagg gcgtcgagat cgccgcctac ccgcgctgaa 180
gccgctggag ggaggcctcg ttgcaaactc ctgttatgcy tagtcgatca tgtaataatg 240
gcttatcgca tatatacttc gttgatagtt tgctgtcaca t 281

<210> 44860
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-D2

<400> 44860

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ggaaggcgcg ccagatcttt gacagccgcg gcaaccctac agtcgaggtc gacgtgtttt 120
gctcagatgg aacctttgca agggcagctg ttcccagtg agcatcaact ggtgtatatg 180
aagctctgga gttgagggat ggtggctctg actatttggg gaagggtgtc tccaaggctg 240
tgaacaatgt gaattctgtt attggacctg ctctgattgg caaggaccct acagcacaga 300
ctgagattga taacttcatg gttcaacaac ttgatgggac caaatatgag tggggatggt 360
gcaagcaaaa acttgggtgct aatgcaattc tggctgtgtc attagct 407

<210> 44861
<211> 472
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-D3

<400> 44861

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ggtccgcctc ccggagcttc gccgacgaga aacgccgccg ccgcgggctg cccgtggccg 120
cgtccacacc agacactccg gcaagcggca gcaacccgac ggcttctctc tcgtcgtccg 180
cctcgaccgc tccattcgcg caccgctcgc cgtcgtccgt gcttgaaccg agcaaggaag 240
cgcggaacac gcagtccccg gagctgacgc cggcaccgcc gtcgaccgaa tcagcgcagc 300
tgccggagga ccagaggtc taccaggacc ttctgcgcgg gctgcagctg cccgacatcg 360
accgctgga cttccgcgcc gggctggacg ccctggatct ctccgatgcg gacttcggcc 420
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<210> 44862
<211> 239
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-042-Q1-K1-D4

<400> 44862

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tgggagagag atggcgtnca gcgcctcgtc tcccctgccg ttgccaacgc tctcgtctgc 120
cgtgatcctg ctgcgcgtgt gcgcccgcgg cggcgaggcc aggccgccac cgccgttcca 180

cggcgtgcgc ccgttcgcct tcgacaaggg gtccaccag atcttcggca gcgccaacc 239

<210> 44863
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-D6

<400> 44863

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agacatgttc tcttggggta gggatactaa caaatgggtt ctaaaattga gttgataagg 120
aaacatttga aacaggagga ggaggatgat gatgagttat tttttgtgtt agttccagct 180
atatatgctt ccctttattc tgaaaagagg ccagtacaca cttcttgtcg tagtggtgca 240
caaaaaatta gagaaatgct cgatggatcat gagagctggt gcaaatctga gtttcgaatg 300
gagccagaga tcttttagagc tgtagcaagc tatttttagaa gagaaggact ggtgcaagac 360
acttcaaata tgagcattga tgaacatctt gggatattca tgtacatgaa atcttaaaat 420
gc 422

<210> 44864
<211> 217
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-E10

<400> 44864

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cggggaacgg gcatgacctt caagatgcat atctttgaga agacgctgac agggaagacc 120
atctccctct aggtcgagag catcgacacc atcgacaatg tcaaggccaa gatccaggac 180
aaggaaagga tcccgccgga ccatcagcgg ctgatct 217

<210> 44865
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-E2

<400> 44865

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gggggcattg tgtatggggg ttgtgtttaa ttgctcacc cttattttgt tcaccttcac 120

tggatgatat acaatagtat gtgctttccc aagacccttt agttaagaaa catgaaatgc 180

tcctgaatct tcttatccaa gacatctttt ggtaactaac ataatgcagg ttggtggagc 240

atttgcttat tttggacaaa agactcaagt ttaccataaa tgtatatcac cgattattac 300

tcaataacta ctggcttgct ttttaagca 329

<210> 44866

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-E3

<400> 44866

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ggggcgaaac aagcgccccg acgctcagg gaatgcggag cgatgaggcg gcgctcaggc 120

actgacgtcg ccggtcagcg cgagctgcgc ggcgaccgaa cctgccatcg caagcacgtc 180

gaggacgggt agactcgtcc atccttcctt cctcctgtta gtcgtcgtag ggtagtttgc 240

actttgcaga tagctagcta gtagttagg gatcaggcat gggtgagggc gaagctgagg 300

tgaagggcgg tgtgctgcat gggccgttac aagctcggcc cgcgtgctgg gtcacgggaa 360

ctttcggcgc gttcacgc 378

<210> 44867

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-042-Q1-K1-E4

<400> 44867

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cgtcgttgac gtgcgcttna tgagggcctc cgccatccta cggcgctcga ggtgctcgac 180
aacaacatcc gcctcgtgct cgaggtggcg cagcaccttg gcgagaacat ggtgcgcacc 240
atcgctatgg acggcacgga ggggctcgtc cgcggtcagc gcgtinctcaa cactggcttc 300
cccatcaccg tgctgtttgg cagggcttac cttggacgc atcataaatg ttattggtga 360
accgattgat gagaaggggtg acataaagac aaaccacttt cttcctattc atcgtgaagc 420
ccctggcttt gttgagc 437

<210> 44868
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-E5

<400> 44868
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cgcgcaggcg gacgggtggg agcggtcgga cttccccatc atctgcgagt catgcctcgg 180
cgacaacccc tacgtccgga tgttaagagc tgaatatgac aaagaatgca taatttgtgc 240
acgttctttt actggattcc ggtggcgtcc tgggcgagat gcaagggtaca agaagactga 300
gatctggcag acatgttgca agctaaag 328

<210> 44869
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-E9

<400> 44869
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gctcacaagc tactatacct tacatagtat cggcgtacct cttagcagct tacgcttaat 180
ggatgtgaaa acccaatgat tcatacctac aagatccttc gtgcgatctc agatcatagg 240
ttaactctat aaatcgtgca cgtgcgacaa tcattatccc tgaatcatga gttaccgtca 300

gtgcatcaat cggcacagat cattacggcg caacaacgac aacgactcgg gctagcaaac 360
ctt 363

<210> 44870
<211> 474
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-F1

<400> 44870

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ggccaaggct aacaagctca agctagagta caacaaggcc atcgcagcct acaacaaggg 120
cgagagcact gcagctaaga aggctcctgc caaggaggaa gaggaggaag acgaagagga 180
gtctgacaag tccaagtcgg aggtcaatga cgaggatgac gaagagggtta gcgaggagga 240
tgaagatgat gacgagtgat ggagagctcg ctcgagacaa tggacggtgc ttcattccaac 300
aatggagcgg ctacacaagg ccccgctggcg atcaaaaaaa aggagcctat atccatgtac 360
tagaattatt cagtttctact ccacatcgtg atgttttaaat tttacttttg tcgtgctata 420
acggatagcg ctctctgttg gcgccactgg cgggtgggtc tgcctctggt ctgg 474

<210> 44871
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-F10

<400> 44871

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gccaacgagc accatctgtt ccattctaat cctcatcccc accatctgtc ctgatgtttc 120
aacgatgtga tccaaagatg tccccatttg aattagggca tttccacgtg aataagaaag 180
aggatagacg cgcaatgttt gtccatgctg gatgcacgt atgaactgaa caaactacga 240
tgctccatgc tcatcatggt tctggaggaa cggtaaacag atatatgacc tgtgataaat 300
ctcatccgcg tgttgccgct gctttagaca acagggag 339

<210> 44872

<211> 291
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-042-Q1-K1-F5

<400> 44872

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ccgctgacgc ccgcacgtgg ccgcgccgcc gcctccctca cccgagctcg accgcgcttc 180
tccagctcgc cgcttcgacg gtcgctgcct cgacacctcc cccgcgtggg catcagccgg 240
gagcagagag ccctgggtccc tggaggcgcg tcgcgttacg gcggnggcgc g 291

<210> 44873
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-F6

<400> 44873

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gagggactgc aggccaatgt ccagaggctt aagacatata aggccaagct ggttatcttc 180
ccaaggcgty cgcgcaaggt gaaggctggt gactctactc cagaggagct tgccaccgct 240
accagggtcc aggggtgacta catgccattt actcgtggty agaaacgttc agttgaggtt 300
gtgaaggtea cagatgagat gaagtcattt gctgcctatg gcaagctccg ccttgagcgg 360
atgaacaaga aacatcttgg tgcccgcag aagaaggcag ctgaggcaga gaaggaagat 420
aagaagtga gctgttgaag atagtaccct 450

<210> 44874
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-F8

<400> 44874

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 gaaaaagttt tctttctcag agagtgttgc aagcttgttc tcttcttttag gctacaagag 120
 gcctgcagtc attcaatcta tgtacatatt taagcaacca ggtattggtg gtgaggtcgt 180
 gccgcaccag gataatacat tcctttacac ggaacctcgt acatgcacag ggctgtggct 240
 tgcacttgaa gatgcaacaa tcaacaatgg ttgcctgtgg gcaattccag gatcacataa 300
 aaagggtttg gtgagacgta tggtcagaga tgaaaatggt acacattttg atcggtcctt 360
 cccagtctat gatcagaaag aatttgtacc gctggaagta aaaatctgtg ctttgggtgg 420
 tatacatgga gatctta 437

<210> 44875
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-C2

<400> 44875

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 tggacgggaa ggagggcgtc gcggtcagga tgagcgtgca cagtgcgctg ctcgcccaga 120
 gcagcgcctt cttcgcgcgg cgcttcgccg ccgcccgcgc cgacggccag ccctgcgtgg 180
 agatccacga ctgcgaggac gcggagatct acgtggagac ggtcggcctc atgtactgcg 240
 acgacggggc caacaagcac cggctgctca agcagagcgt tccgcgcgtg cttcgcgtca 300
 tg 302

<210> 44876
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-H10

<400> 44876

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 tcgacgaatt atacaccac gaccatgaat aacaaccaac aacctgctgc cgacccaaat 120
 atcaagcctg cacctgcacc ttacaccagc gatgaacttg tgaaagtaac tgaagaacaa 180

attgctgcat cagctgctgc agcttggaac ccgcaacaac ctgcatcgtc gcaacagcaa 240
gaagtgtaca ctactccgag tgaggacgct cctacatcag gaggaagcga tggctcctgct 300
gctccagctc ttgctgcgag tgactcggat ccaaagcaag tgaatctgga caaggcggaa 360
acacagagat gactccgctt aacagcttga cactggatgg gatgagcaca ctgaacacg 419

<210> 44877
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-H11

<400> 44877

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atatactggg aaagggtttg taaggatcac ttcaagagga cttgttgggg catagggttg 120
ggtttttggt tcagggtggt ggccttgac cctcatttca caaagcttaa catggattca 180
atcattaatg cttatgagct ttcaaagagc agggctatat tgctcgatta tgatggaact 240
ctgggtcccc aaacttacct caacacggaa cctagtccac aggttttgag catcatcaat 300
accctttgct cagatagtag aaacatcggt tttcttgtca gtggctgaga caaagatacc 360
ttgggaaagt ggttctctc atgttcaaga ttggggattg cagctgaaca tgggtac 417

<210> 44878
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-H2

<400> 44878

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atgtccggtg atgcaccaga cagtgttcgg tggaccatgc tgctcgtcc gaacaatccg 120
ctctcgataa ttctgtctacg acttactggt aaaattcacc ggactgtcct gtgtgcaccg 180
tactgtcctt tgagccaact gtccatctgg ccaacattt 219

<210> 44879
<211> 397

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-041-Q1-K1-H4

 <400> 44879

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 gttgctgcaa ttctctctctc tgtttccac tcgtagatcc cgccgctcc cgcgtctagc 120
 cgccgacgag caccgcagcc tgacactgcc gcgggcgaac catcgcggtgc ggctctgccc 180
 gggatggcga ccatggagag cctgatcggg ctggtgaacc gtatccagcg cgcgtgcacc 240
 gtctctggcg accacggcgg cgccggcggc ggcgagggct ccctctggga ggactcccc 300
 tccgtcgctg tcgttggcgg gcagagtcc gggaagtcgt cgggtgctga gagcataatg 360
 gggagggact tncctgcccc tggatctggc attgtca 397

<210> 44880
 <211> 117
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-041-Q1-K1-H5

 <400> 44880

 aacatgaata ataataagat aataaatttt tctgtttaca gccaacaggc tttttctggc 60
 tatggcacia aactgggcgg tgttgacact gacattgtcc agtgggtcac cttacat 117

<210> 44881
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-041-Q1-K1-H6

 <400> 44881

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 tcgccagttg tcggctcgcg cctcctgcgc tcagcgcttc gctcgcggtg ccggtgcgtg 120
 aggtgaggtt gatgggcgcg gagggatgag cgagagcgcc ttgaccataa ggcggctgag 180
 cgggccgtcg aacggcggcg gcggcaatgc gggagctagc tcttgcgcg tccggcacctg 240

nggaggagga ggcggcgccg ggcggcgcaa tgcggcgagc atccggggcg tcaacgtggg 300
 gctcatggac gagaagggtgc tgcagctcgt gttcctggcg ctcaactggg acccacagtc 360
 gctgtgcgcg gtggcgcggtg tgagccggcg cctgcgcgcc gtggcgggatc ggggtgctgtg 420
 gcggaagctc tgcgtctcgc gggcgccg 448

<210> 44882
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-H7

<400> 44882

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 ctgagactgt ggaacttcag attggtctga agaattatga tccacagaag gacaagcgtt 180
 tcagtggctc tggttaagttg ccccatatcc ctctgcccga gatgaaggtg tgcattgctt 240
 gtgatgcca gcatgttgag gaggccgaga agatgggact tgactacatg gatgttgagg 300
 ctctcaagaa aatgaacaag aacaagaagc ttgttaagag gcttgccaag aagtaccatg 360
 ctttcttggc atcagaggcc atcatcaagc agattccccg tctccttggg cctgggtctca 420
 acaaggcagg caagttcccc accct 445

<210> 44883
 <211> 104
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-H8

<400> 44883

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 ccgcgcggcg acaccgtcgc cgatgcccgt gatttcgccc atat 104

<210> 44884
 <211> 221
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-A11

<400> 44884

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ttggagggtgc catcgtgtat attacatatg atatgtactc tacaatgggtg cctcataacc 120
gacatgtggtt tcctagaaat aatcaatata ttgattgaga tttatctcga tatatttctg 180
aactatgttc atcatataaa taattgaaaa catcaaatca a 221

<210> 44885

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-A12

<400> 44885

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tgcgtagagg tcttctttgt tcggtttcgt ggggtgatcg atcgagatgg cgtcgtctga 120
tagtgagtac cgctgctttt tcggcgccct cgactgtgcc acggacgacc actccctcca 180
caacgccttc agcaccta 198

<210> 44886

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-A2

<400> 44886

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agcagcagga ggcggctgcc gcgcagatgc tggccaagtg agcccctggt ggccagggcg 120
gcgaccagga acgtttaaaa ccctaacccc ctttccatct ctaaaagggg cgtcgtctgt 180
ctgttgatca attcctctat gctgttagtt ggaaacttcg ggtgtagttg gtggatttgc 240
tggtgtgtgc cttgtgttcg tggaaattcc tgtgaaggaa ctgccatgtg ttaggctgtt 300
accatgccca ttttcttaat actatgtgtt gactgtgatc 340

<210> 44887
 <211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-042-Q1-K1-A3

 <400> 44887

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 cacaccggct tttttcactg cgatcgaatc gatggccgcc gagggcgaga agaagatgat 120
 aaccctcaaa agctccgatg gcgaggagtt cgatgtggaa gatgtggtgg cgatggagtc 180
 gcagaccatc cgtcacatga tctaggatga ctgcgccgac aacgtgatac cttttcctaa 240
 cgttaactcc aa 252

<210> 44888
 <211> 227
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-042-Q1-K1-A6

 <400> 44888

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 tattgttctc cgtcgttacg ctttctttcc aaaggcggat ctagacggct acctcgcaca 120
 gactagtacc gctacctcgt catccacctc gcctggacca cgtacgacca ctccttaaca 180
 actcctacat cacctacggc gagtgcctct actccaagat cattcca 227

<210> 44889
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-042-Q1-K1-B1

 <400> 44889

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 taaaaatata atataaaaat atataaaaaa aaaataaaaa aaaaataata ataaaaatat 120
 aatatataat aataataaaa aaataaaaat ataaataaaa aataaattaa aataataaaa 180
 aaaaaaaaaa aaaaataaaa taaaataaaa aatatataaa aaaaaaaaaa aaaaataaaa 240

aaataaaaaa aaaaataaaa aaaaaaaata aaaaaaaata aaaaaaaata ataataaaaa 300
 aaaaaaaata aatataaaat ataaataaaa aaaaaaaata aataaaatta aaaaattaaa 360
 ataaaaataa tataaataat taattaataa taatat 396

<210> 44890
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-042-Q1-K1-B11
 <400> 44890

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 cacaactatt aatgcactca ctgagcctat tgatatatat agtgaatgga ttgatgagcg 120
 tgaacgtgtt aacactgacg aaggcgacta tgattcggtta gcttgcccca tgcacgatga 180
 aactgttacc tacaatcgta atgtaatgtg ctggtatact cgaatgccat agcccatagt 240
 cagccatggc ttggaataac gtagtggtg actgatatgc cagtaggcac cttatctagt 300
 acttacagaa ctacaaaaag tttgtactat acatgtatag acaaccttat aagtggctat 360
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<210> 44891
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-042-Q1-K1-B6
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 gtcattagaa actccgggag ttggaataatc ccgaacgcta gttccttggtg caaagaaatt 180
 ggattgtgaa atagcactgt gggggcggag gctggcatct ttctgcttga gcttggctga 240
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 atccctctct attcaattca cctttaaccg gacaaggctg aacaagtcac gaaggggcag 360
 agtcgcttga ggteccgggc ttgacctctc ggcatatatt aatgggtgtg tgctagcggg 420

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446

<210> 44892

<211> 363

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-042-Q1-K1-C11

<400> 44892

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ccagtgcgac ggccacggcc tgagcggcgc tgccagcaag gcggctagta tgagcagcat 180

ggagtcgagg ccgggcccga cgaacctggt ggagcccata gggcacggcg ccgcgctgcc 240

gtgcggcggc caggcagtgc agccgttggt gacgagctcc ggggctgtgc tcgggtgcagt 300

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tcc 363

<210> 44893

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-H1

<400> 44893

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cgactacaca actcacgttc tggattcat catgctgtcg tgcttgattt cagtctcggc 120

gaacttcaac actttttctg tgatcgggaa gacgtctcct gtaacctacc aagtccttgg 180

ccatctgaaa acatgcttgg tcctgacctt tggctatgtc ctgcttcacg acccgtttag 240

ctggagaaac atacttggga tcctaatacgc gagaatcggg atggttctgt actcgacttt 300

gtgcactaga tagactcagc gaaaaccagc ataagcctcc ccgcaagccg ttcaggcaaa 360

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t 421

<210> 44894
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-042-Q1-K1-C12

<400> 44894

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cgcgtagaggc tctacgtaca gttcaccgtg cttggatata agcgggtccaa gtcgaaccag 180
tacgagacta cgtcgctggt gcatatcgag ggggtgaaca ccaatgagga cg 232

<210> 44895
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-F1

<400> 44895

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taaacgagcc agtcgggctt ttagctcttt cgagttccac aggacatgga actaatatta 300
ttgctggagt aagcttggga atggaatcaa cagcactacc agttctagtg ataagtgttg 360
ccattatata agcatattgg ctggggcaga cctctggctt ggtggacgag tctggcaacc 420
caactggttg tctttttggg acagctgtag caacaatg 458

<210> 44896
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-F12

<400> 44896

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tcattttctag tgctgcctct gccaatggaa cacttttggc ctattcagat ggtgtgagac 180
cctgcctctt tgcgctaagg cataaggggtg gaaagaagta tacccttgac aaattagagc 240
taccaaaagg attgcctgt tctcagagta tggcggtttac ggttgattcg tccaatttga 300
tacttgcggg acgtaatgga aaaatataca tcattgacat tgcaacaaga gaaatttcaa 360
atgtatttca ccctacaaga aatgcagatg gatcataaat ttcaagagaa tcacctttaa 420
cgaaaatggt 430

<210> 44897

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-F2

<400> 44897

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acgactttat cacaccaacc cttacacctg tccgcgtctc gtgaatacct accgctcaat 180
tcaagctgat cccctccgac gatacgtctt ccacccttac tctcttcacg gctactccaa 240
tttaccgcct gtcagtatct actgaatatg aacttgcaact ttgaccctag tccccaaaag 300
caatgactgc accagcaccg atctgctct 329

<210> 44898

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-F3

<400> 44898

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ccggcgaggc gaccttgcca cctccgttcc tctgcgctcc ggctgagttt ctgatttggg 120
ataatcctgt tctctctgag tgaatcaaca tgtctgggaa tgatgataag ccacatgctg 180

ctgcagacag aataaaggca gccacgttat cagtggctaa gggattgagc agggctcaag 240
ctgaacgcgc tgcgactgct gctgcccgc atgtgaatgc ctatgggcag aatgaagagg 300
gaccaagccg ctggcaggag aggaaggaag ccacgagaca gatgtatctg atgagtacag 360
agaaggctgc gaagctgggc actgtgaagc caaaagcttc agaaacttct tctgttggcg 420
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<210> 44899
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-F5

<400> 44899

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gccttacaga tccgtcctcc agctagggta gcgttcctct gcagcgaggc gatcaagcgg 120
accaaggcgg aaagaagatc gcgtacgaca agaagctggc agcctgctcg atgagtacac 180
caaggtgctc atcgccctcg ccgacaacgt cggttccaag cagctccagg acatccgccg 240
gggcctcagg ggcgactcgg tgggtgctcat ggggaagaac acgctcatca ggcgctgcat 300
caaggtgtac gccgagaaga ccggtaacca cacctttgac ccgctcatgg acctcctggg 360
cggcaacgta ggcctcatct tcaccaaggg agacctcaag gaggtgcgcg aggaggtcgc 420
caagtacaag gtggggggctc cggctcgtgt t 451

<210> 44900
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-F7

<400> 44900

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ctggactccg cccttcacag atccgtgcct gcagctatgg ttagcgttcc tctgcagcga 120
tggctatcaa acggaccaag gcggagaaga agatcgcgta cgacaagaat ctgtgcaacc 180
tgctcgatga gtacaccaag gtgctcatcg ccctcgccga caacgtctgt tccaagcagc 240

tccagtacat ccgaccgtgc ctcaagtgct actcgggtggt gctcatgggg aagaacacgc 300
 tcatcaggcg ctgcatcaag gtgtacgccg agaagaccgg taaccacacc ttgacccgc 360
 tcatggacct actggtctgc aacgtatgcc tcatct 396

<210> 44901
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3076-041-Q1-K1-F9
 <400> 44901

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 tgaattcatg gccaaagga gcttggaata ccatctattc aggagaggat gcgccccgtt 120
 gtcttgggaa ctgaggctga agatagccat cggcgcagct cgaggactcg cattcttgca 180
 tgcacagaa aagcaagtga tctaccgtga cttcaaggcg tccaacatac ttttagatgc 240
 gaactataac gctaagctct ctgatttttg ccttgctaaa cttgggccga ctggtagcaa 300
 gtcacatata acaaccaggg tgatgggaac gtatggctat gcagctccag agtacgtagc 360
 aaccggccat ttgtacgtga agagcgacgt gtacggcttc nngcgtgtga tgctggagat 420
 gctg 424

<210> 44902
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-041-Q1-K1-G1
 <400> 44902

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 gcgtgagagc tggacacgct gatgcagggt tatccagcgg ctacagagat cgttgacggc 120
 atggagcggg gcgcctgccg ttctcgcggtg cagtggtcgg atggaccgcg cgctgggagc 180
 atggaggagg tcggcattga gcgggtttgc tgcgtgcagt cctcgccggt gcaagacca 240
 gtgcttatgg agttcctgga cggcgtgacc aagctggccg gggatgccaa cgtggaaaca 300
 gtgtctcagg agatccacgt cgcgccggtg gtcaaaggcg gcgtccctgc aaacgcgtca 360

ccgtgatttc aacggaaaat ttggtccagc aagtaggcaa gcggtttgat gtgctggtt 420
 ctgaggttgg ctatttggtg cctctgattt t 451

<210> 44903
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-G11

<400> 44903

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 tcgccgtccg tggcgcgcct gccgccgtg ccgccgtgg cgaggtggaa gcaggggcgg 180
 ggctcctcgc gccggccgtc gtcgcgccgc ctggccagca gtcgtcgtc cgacgacgag 240
 tacgacgagg actcgaggaa cctcttctcg tcgcggagct tgctgtccga ctcgtccgac 300
 ttctacagct gcccgcccg gaacgccagc gccagcaggg ggcgcgcgtt cgtctcgggc 360
 ccgtgccgcg cgctggcgct ggcgccggcg ccggcgcccc cgcgccgcgg cgcg 414

<210> 44904
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-G12

<400> 44904

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 tcgccgtccg tggcgcgcct gccgccgtg ccgtcgctgg cgaggtggaa gcaggggcgg 180
 ggctcctcgc gccggccgtc gtcgcgccgc ctggccagca gtcgtcgtc cgacgacgag 240
 tacgacgagg actcgaggaa cctcttctcg tcgcggagct tgctgtccga ctcgttcgac 300
 ttctacagct gcccgcccg gaacgccagc gccagcaggg ggcgcgcgtc cgtctcgggc 360
 ccgtgccgcg cgctggcgct tgccgctgcg ccggcgcccc cgcgccgcgg cgcgtctcaa 420
 agctgccggt a 431

<210> 44905
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-G3

<400> 44905

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gatttctggg ttctgtccaa attaggcctg aatcaaattg gcaatcatca caatgtctag 180
tctctcgtgt atattgctgt tctttcttta ctttttaaaa aaaaaagaaa acacgcacac 240
acaaataaat cagcaaacat gcacagttct cttcacacca tcagtagagc agtgcgagct 300
cagtagctcg ccttggaaga cgttcgcgct ggctttccta ctctgaagaa agcagcggat 360
cttgggcttt ctcaagcccc ggagatccag ctcgccatcg ggttccttca tcctactaca 420
acaaacctgc cacattgcat aagcctccaa ttcgatactt act 463

<210> 44906
<211> 388
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-041-Q1-K1-G4

<400> 44906

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ggcaaggcgt atcggaggaa ggcgttgggc atgatatata atatccattc tgattgcac 120
attcttgtga atttgtttgt aggagctaga cattagtgtt gttgaatgct gcatggttcc 180
taatcctttt cgcagtctaa catctgtgga gttagtatgt tacatggcaa cagctgaaca 240
tctgtggact ataactatat ggcaacagcc gaagattgtg tctgtgggat aactggttgt 300
tntggttgct cttcagtagt ttgtttgctt cagtatggac tatggagtaa actgcatgct 360
gaaacccgaa ccaactgctga aacggcag 388

<210> 44907

<211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-041-Q1-K1-G6

 <400> 44907

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 ctgccatggc tgcgctgcaa gatctcgtcg ctggtgcccc acggcaagga cagccccccg 120
 aggtcatcgt cggcgaggaa ggcggcggcg ccggtgttcc cgctcgccct gaccaagggc 180
 caggtggtgg aggtgccggc cgtgcctgtg ccggccaagg acccggggaa ggagcagctg 240
 ctggtgatcg aaggcatcga gtacgacccc caggcgaaca ataagttcga cgtcgccatc 300
 aacctgcccc cggacaaagc gttgcaggta ggcccacagt acaaggagt 349

<210> 44908
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-041-Q1-K1-G7

 <400> 44908

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 gctggggcac cggactgtcc ggtggtgcac cggacagtgt ccggtggtgc accggacagt 120
 gtccggtgga ccaggctgcc tcggccgaac aggccgctct cgggaattcg tcgacgacgt 180
 acggctaaaa ttcaccggac tgtccggtgt gcaccggact gtccggtgag ccaacggtcg 240
 gtcgggccaa cggtcggccg cgtgatcggc gcgcgacacg tggccgagcc aacggtccga 300
 aagaggcacc ggactgtccg gtgtgcaccg gactgttcgg tgcgccagat ctgcaacggt 360
 cggcttcggc atttaaggaa aggaatcggg caccggacac tgtccggtgt gcaccggac 419

<210> 44909
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-041-Q1-K1-G8

 <400> 44909

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 tttccctttg cacaatgggt caacggtata ttctaaagat ggggtgggcat tgaaaacacc 120
 tgactcagcg gaagctgtaa atggagctaa cgatgagatt cctccactcc ctgatgacca 180
 gattttccag ccagatgaac tggaacaact gttgcagtca atacaagaag attcccattt 240
 gggctcaact atcattgacc ccatgcattc ttctatgaca aattcacttc tgcctgagga 300
 cgattatttg atgttctatg atgcaccctt cgatttcact atttgtgatg atgggtatgg 360
 acagaatgga aattttggct ccatagcagt ccatctatct ggcattggca tgattgaaga 420
 ttgtatggca tac 433

<210> 44910
 <211> 453
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-041-Q1-K1-E9
 <400> 44910

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 tggaacaagt caacacgaag ttaatggatc ataagaagcg tagaaccaag gtaacattcc 120
 gaagggaagt gtaatgcttg ctcaaatttg ttaactcttt tttatgttct tctcatggaa 180
 ctctcactg acgccggttt tatgctagct tgaacactat tcctccttag ggtttgatga 240
 aacaacattg ctgctcaata aagaaaagga gcaaggcaaa acacacacaa gggtttagtgg 300
 aaaagcagat ggcaataaag caaagtcagc agaacttggtg agccttggtg atgaaaaaga 360
 gcaacgaaga aatcacacga aagttagtgg aaaactggat aatactgcaa agtccgcgag 420
 agtttctgct acctgcgttg cgtacttaat gtc 453

<210> 44911
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-041-Q1-K1-C6
 <400> 44911

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atatccgcta gatcaatatg agtgtggctg ctccatcatt agctgttcgt ttgcggatga 120
 tagtaatgtt tattactgtg tgggaactgc atatgttata cctgaagaaa atgaaccgac 180
 gaagggccgg attcttgtat ttgcagttga agatggaagc ttgcaattga tcgtggagaa 240
 agaaaccaa ggagcagttt attcgtgaa tgcattcaat gggaaattgt tggctgctat 300
 caaccagaag attcaattgt ataagtggat gtcacgcgag gatgggtcac atgagctgca 360
 atctgattgt gggcaccatt ggca 384

<210> 44912
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-C7

<400> 44912
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 ggtacaggaa tctctatctt gcaacctgac gggagttaac tcgacttgaa ggagtgcaca 120
 aggcacccgt tattgatcac ttgtctgaaa ctgttcttgg tgtcacaact ataagatgtt 180
 tcaaaaagga gaaagaattt ttccatgaga atttagacaa aattaattca agtttgcgca 240
 tgtacttcca caactatgcc gcaaatgaat ggcttggttt ccgactggag ctaattggaa 300
 cacttctatt gtcaataact gcatttctca tgatcagcct gccaggaat tttatcaaga 360
 aagaaatttg tggatgtct ctatcttatg gtctctccct caattctc 408

<210> 44913
 <211> 449
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-041-Q1-K1-C8

<400> 44913
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 cggcgggggt ctggcgcaac atgaaccctg tgctgctccc caagaaaacc gctgtcgctg 120
 ctgccaagga aggcaaagag aagaagtcac ccaagaaggc cgccgccgcc aagtcgcccc 180
 aaaagggtggc cgcctcgtag gtccctggca atgctgatgc actgtctctc tctgtcctct 240

ctgaactgaa acgctcctaa ctgtcgttgt cggtcacggg cgttggtgtt tgatgcgctn 300
 ttattgtggt tgttcgtgtg taattgcttg cctttcggcc atttggtcatg cactgtgtaa 360
 ggtcacactg gtctaggttt tcaatctggg aaacaccggg ttagattcaa ggagcgtgaa 420
 ctgggaaagc aggtgaaaag gtgggatct 449

<210> 44914
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-C9

<400> 44914

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 aaccgagagc accaggggaa aggaagtgcg cctaggcatc gacatggagg acttctacgt 180
 cacgatcccc tacagcctgc tgctcgtagc ctgcggcgta accggctaca tgaagcgcg 240
 cagcaccg cgtctggccg ccggtggcgg attccgtgct gcgctccttc tcgctagtgc 300
 gctcagcgcc cgggccttcg cgcacgccgg aagtggcact gccgccatct ttgccaccgt 360
 ccttcatac gaatgtgctg tgctattgac tgctcgtatg ggaataagat 410

<210> 44915
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-D11

<400> 44915

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 gattctagaa tacgagttgt gaacggcgat gaatttgctt acaagtttaa agggtttcgg 120
 aacacgagta gccaaatctc agcttctgta gctcagaacg ggaaatacgt gatctgtgcc 180
 agcgaggatt ctacagctta tgtgtggaga catgacaaca gttcccaccc tagcaggagc 240
 aggagcacag ttgacgttac caactcatc gaacatttcc actgccatgg tgtgaccgtg 300
 gctgtcacat ggctgggtgc tgaagcccga agttcgtttg gacctggaag cagcaggcac 360

agtgattcag atggggcaat gaactctggc cgggaccttc cagttgagaa cac 413

<210> 44916
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-D3

<400> 44916

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gtcgatgtgg ttctgtcaa cacctacctg accagggttcg tgtgggatga gggcaggtac 120
cccacaatgt cgtcgctcaa ggagatcgtc ggcagcatcc agtcgcaggt cgccaagatc 180
gatgatgaca tgaagggttcg agcagcagaa tataacaatg taaggagcca gcttactgca 240
atcaacagaa agcaaagtgg gagcttagca gttcgtgac tttccaatct ggtaaaacca 300
gaggatatgg tctgctcata gcatc 325

<210> 44917
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-D6

<400> 44917

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gcactggctg ccctatctaa tgcattcgat ccctccttaa aacccaaaac accacttcca 120
tctcgctcag gtcaagggtc ccaaagagca gctgccgtag ctgcactatc ctctgtgctg 180
actgctgagc aatctggatc ttcagaaaat ctacgagcca aagctagcag cacaggagat 240
aagactgatg tcgataggcc tgtcataact ccagctggac catctgggtc atcttctcct 300
cagtctgaaa ctggggagtc caatgtgttt cgccaggaaa aagatgctgc agtagatggg 360
gcaccatctg aactgatgg agcagtggct gagacccgag aagaagaaac gacagaaaat 420
gttggatgaag cgacatttag ctatgaccgc ttgatatcta a 461

<210> 44918
<211> 394

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-041-Q1-K1-D7

 <400> 44918

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 tcgtcgctca aggagatcgt cggcagcatc cagtcgcagg tcgccaagat cgaggatgac 180
 atgaagggttc gagcagcaga atataacaat gtaaggagcc agcttactgc aatcaacaga 240
 aagcaaagtg ggagcttagc agttcgtgat ctttccaatc tggtaaaacc agaggatatg 300
 gtctgctcag agcatctagt aacacttttt gctattgntc caaagtactc ccaaaaagga 360
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<210> 44919
 <211> 317
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-041-Q1-K1-D9

 <400> 44919

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 tgtgttgag tttttgcacc tggtgcaaac tgcgggctac agtatagttt ttgcgtttct 180
 aagggaaact ggattgagat ttgataagga tgcgggttgt aggaatttgc atgaacagtt 240
 gagaacagat ggcaaaattt acagggtact gcatacatga ttgagaatgt ccgaaaaatt 300
 gatgtgaaat gccaaat 317

<210> 44920
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-041-Q1-K1-E10

 <400> 44920

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 cggcggcggc aatggaggtc acctcctccc cctcgccttc cgcgcgcgcg ccggcctcct 120
 cgaagccggc gctccagctc aaccccgcg cgtcctcct cgcgcgcctg ccgaccccg 180
 cccaacagc ggcgacgcc gtcaccgcga cggcgcccc cgcgcggccc gccaccgcgt 240
 ccaaccgct cgcggccttg ctctctccc tctggcgagg gctgcggcga gcgccgaaac 300
 agccggtcca cccgcctcc gccgtcgcg cgcggagggc ggcggagcag caggaagcgg 360
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<210> 44921

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-E11

<400> 44921

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 tcgaagccgg cgtccagct caaccccgcg gtcgtcctcc ttccgcgact gccgaccccg 180
 accccaacag cggcgacgcc cgtcaccgcg acggcgcccc cgcgcggccc cgtcaccgcg 240
 tccaaccgcg tcgcggcctt gtcgtcccc ttctggcgcg ggctgcggcg agcgccgaaa 300
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<210> 44922

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-E12

<400> 44922

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 gccctcgaga ccatcgacct cgccaaggac ccctatttca tgcgcaacca cctcggcagc 180
 tacgagtgca agctgtgcct gacgctgcac aacaatgagg ggaactacct ggccacacg 240

caggggaagc ggcaccagac caacctcgcc aagcgcgccg tccgcgaggc caaggacgca 300
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agacctgggt ataaagtaac caaacaatat gatcttgaga tgaagcaaca ctcgtttctt 420
tttgaaattg gttacccgga aatcgaagat aattg 455

<210> 44923
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-E2

<400> 44923

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tcatttcaac aactatatct cttctatcta gctgcgacgc cagagcacct atggaatacg 180
aacggatcat ccaggatggt gtggatagac aacaaccgtc cgaaatacc tagacaaacg 240
cacctgccac gaccaattcc ccacaaccta acaaagttcg cgtcgcagca ggattgccca 300
cgaatgacgc tatatggacc gacctggtcc gcgaag 336

<210> 44924
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-041-Q1-K1-E6

<400> 44924

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cgcccacgcc tcgagccggc catccgcctg ccgtcgcagc gcgcgcggc ggccgacgaa 180
acggacgacg gcgacgtcgg gaccgcgtgg gctgtgctca tcgccggctc cagcggctac 240
tacaactacc gncaccaggc ggacatctgc catgcatacc agatcatgaa gaagggcgga 300
ctcaaggatg agaacatcat tgtctttatg tacgatgaca tcgcgcatag cccggagaat 360
ccgaggcctg gtgtcatcat caaccatccc caaggtggcg acgtctatgc tggggtgcca 420

aaggattaca ctggtcgaga tgtcaacgtc gacaatttc

459

<210> 44925

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-E7

<400> 44925

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cccattctgt cagcctcagc tgtcattccc gcgaagcgcc gtctcccggc tctatcgatg 120
gaccgagtcg ccgccctcgt cgtcgcgctc ctcgccctct tcttcgccgc cggggccacg 180
gcgcaggccc cggcctcgtc gcccaagcgc actccagcgc cagcgccacc caggacggcc 240
ttcctcccgc cgccgccggc cagggcgctt atggcctccc cgccctcgcc tcccgcgatg 300
gcgccggtgc ccgcgccctc cgccggcggtg ccggccacga gcccgcgcgg cgccgggagct 360
ggtgacgacg cgatggcccc cgccggagcc gcggcggtc tgactccggc tgccgcgccc 420
gtcacggaga 430

<210> 44926

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-C11

<400> 44926

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ctaagtcgtc tcggatggcg gcagcatcga cgtcgggtacg ggtgctcccc gacggcggtg 120
ctgacgacga ggagcgctgg ctcgccgagg gcatcgctcg cgtccagcaa aacgctttct 180
acatgcaccg tgccctcgat tccaacaacc tcaaggacgc actcaagtac tcggcgcata 240
tgctatcaga gctgcgccacc tcgcgactat cgccgcacaa gtactacgag ctttacatga 300
gggcgtttga tgagatgaag aatctggaga tgttctttat ggaggagact ctccgatgca 360
actgctctgt ggttgatctg tacgagcttg tgcagcatgc tgggaatgtc ttaccgagac 420
ttcta 425

<210> 44927
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-G8

<400> 44927

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ttaggaggat agtgtttagt atgttcttca ggatacactg tcttggtgga ttctgtagga 120
ggatgggttc tagtatgttc aggaatcagg atgcgctcgt cttggtgggt tttgcttctg 180
atgacttcga tatgttccat ggcaaatgcg actttaaaagt ttgggagact tataattcta 240
caaaaaaaaaat ttatattata tataaatata taataaatat aattaaatat tataattttt 300
ttttatatta tatatttttt ttaattatat attttttatt ttttttatta ttttaattatt 360
atttttttta tttatatttt tttttatatt tttt 394

<210> 44928
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-H1

<400> 44928

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ggctttttctt acatgtatct ttcttacagg tcttcattga agtagccttc ctaactgatg 120
tgtcactctt catcaacaag attttgaatg cttttgtaac ttgtttcaaa ccatgcttgt 180
tcctttgata gccattagtc aagatgtatc cttaatggga gtgaatagac ccactcatct 240
tataacctac aaactctttg gaggcagagc gctccagtat tatcgcgagag ctgaagcaat 300
tgagtataaa tattttactg ttgatggaga taaaatttca agatatttca tcgttttcgta 360
tcgatttcag gttgtaatgg aagttgtttt taatctacgc aattttcact gttaaggtgt 420
tg 422

<210> 44929
<211> 61

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-040-Q1-K1-H10
 <400> 44929
 cccacgcgtc cgcaaacagt ctgataaaaag atcagaatag aaagccaaaa atttcagggtg 60
 c 61

<210> 44930
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-040-Q1-K1-H11
 <400> 44930
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 acacgcttca gaggtcatca ctctgtggaga aatctatgca gaaaccgcag gaaaggatgt 120
 ctgttttatc tgatgtgctg caaagaagca actatgatgc agagcccatg ttgaaggcat 180
 gcgggattac aattgctaga aatttcacag aagttgatgg taggggtattg cagccaccta 240
 agcttaaagc tgggaatggt gaatacatTT ttacacgcaa tggtagatgg aacttcaaca 300
 ataagaggct cattagagct tgtagtgtcg agaaatgggc ggtggtaaac ttttttgcac 360
 gatgcaatgt caaggatctt gtccgggatc tcattaagtg tgtaagcatt aatggcatta 420
 tggttgatgc ttc 433

<210> 44931
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-040-Q1-K1-H2
 <400> 44931
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 ttaggacgat agtgcttagt atgttcttca ggatacactg tcttgttgga ttctgtaaga 120
 agattggttc tagtatgttc aagaatcaag atgcgctcgt cttggtgggt tttgcttctg 180
 atgacttcca tatgttccat ggcaaatgcg acttttaaagt ttgggagact tagaattcta 240

caaaaaaaaaa ttatttttaaa ttaatatatt atttaataat attaatttaa ttattattta 300
 ttattttttt attttttttt ttctactttt aatttttttt ttattacatt tttttttattc 360
 tttttattta ttttttttat tttttatatt ttttattt 398

<210> 44932
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-H4

<400> 44932

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 ataccagggg acaagcagtg accaatccac tattctgtcc gaagataatg gatgacgttt 120
 gtttcttcag aatcagatag acagcttcta ctcatgaggc agcaggatga agaacttgat 180
 gagctcagtg aaagtgtcca aaggattggg ggcgtgggac taaccataca cgaagagctg 240
 tctggacagg aaaggatcct aaacgacctt agcttggaga tggagactac ttccaacaga 300
 cttgatttcg tgcagaaaag agtggccatg gtgataaaga aggccggcat caagggtcag 360
 atcatgctga tcgtgttctt ggttgttctg ttcattcttc ttttcgtttt ggtgttcttg 420
 acatagccaa gtgca 435

<210> 44933
 <211> 257
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-H5

<400> 44933

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 tgggttctag tatgttcagg aatcaggatg cgctcgtctt gttgggtttt gcttctgatg 180
 acttcgatat gttccatggc aaatgcgact ttaaagtttg ggagacttag aattctacaa 240
 ataaaaaaaa ataaaaa 257

<210> 44934
<211> 235
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-H7

<400> 44934

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cactggaatc ggtatgctct tcagcacaac aggcgtttca aaacgcgagc tccgcttaac 120
acgataacct actgctggat cacttaacgg gcacctgctt ctcaatgact actaatctat 180
attgccgcta agtactctat gcttcccttg cggctctggct ttatctacct ctccc 235

<210> 44935
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-H8

<400> 44935

cggtagagtc aagagagcta ttgaaaaggg ctagagcaat gcagcaactt caaaatacca 60
gggggcatgc aggaccaacc actattctgc cgaagataat gatgactttc tttcttcaga 120
atcagataga cagcttctac tcatgaggca gcaggatgaa gaacttgatg agctcagtga 180
aagtgtccaa aggattggtg gcgtgggact aaccatacac gaagagctgt ctggacagga 240
aaggatccta aacgacctaa gcttggagat ggagactact tccaacagac ttgatttcgt 300
gcagaaaaga gtggccatgg tgataaagaa ggccggcatc aagggtcaga tcatgctgat 360
cgtgttcctg gttgttctgt tcatcattct tttcgttttg gtgttcttga catatccaag 420
tgcacc 426

<210> 44936
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-H9

<400> 44936

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tttgaacacg cttcatttgt catcactggt ggagaaatct atgcagaaac cgcaggaaag 120
 gatgtctgtt ttatctgatg tgctgcaaag aagcaactat gatgcagagc ccatgtttta 180
 ggcatgcggg attacaattg ctagaaattt cacagaagtt gatggtaggg tattgcagcc 240
 acctaaagctt aaagctggga atggtgaaga cattttttaca cgcaatggta gatggaactt 300
 caacaataag aggctcatta gagcttgtaa tgtctaaaaa tgggcggtgg taaacttttc 360
 tgcacgattc aatgtcaagg atcttggtcg ggat 394

<210> 44937
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-A10

<400> 44937

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 agcttacatc acggaacaat gggactgtta aaacagcgat ctggcataaa aaaacaacca 120
 tacaatgcta tcaaggcaat gcttctagta agcacctcgc aatggccacg atcaccatga 180
 acaccattca tcctaaagag accgtagaaa agatgcaacc ctacatgacc aatacacacc 240
 atggagaaca gcacacacac tcaacacatc aagactctaa acatgacaac caaacacacc 300
 gtacaagtcc ac 312

<210> 44938
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-A4

<400> 44938

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 ggcaaaggac aatgttgga ttgctgaacc agcttgatgg atttagcagc gatgagagga 120
 taaaggatgat agctgcaaca aatcgtgctg atattcttga tcctgctctg atgagatctg 180
 gtcgtctgga ccgtaagatt gaggccctt atccatcaga ggaagcaaga gctaaaatcc 240
 tgcagatcca ctcgaggaaa attgaatgtg aatcccgatg tcaactttga agagttggcg 300

cggtcaaccg atgatttcaa tggcgctcag ttaaaggctg tttgcgtaaa ggctggcatg 360
 ctcgctctac gccagatgc tacagaagtt acccacgaag attttaacga ggggatcatc 420
 caagtgcattg caaagaagaa gttcagcttg aattact 457

<210> 44939
 <211> 236
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-A5

<400> 44939

atatagtatt cacaatcttt taattacctc aaaacatgga ttctttgaaa tttttgaagg 60
 ccttatgaat tccattgttc catatatcaa tcaacattga ctactgaac aacaaaattc 120
 aatacaccta attttgctaa tcaccacaaa cttattttta cattaattca acctataaat 180
 tatatcttta accaccatat tattcaattc attttaattc cctaacttat aataac 236

<210> 44940
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-B1

<400> 44940

accactcgt acggcgccat actggcttca ggcattctcg actccggtgg caggaatgtc 60
 accatgaagc tgaggtagat gtcgaagcac gacaggctca ccgctgttgt caggctagcc 120
 gtcttcaccc agttctggta ctggtacccg ctacactact tcataagcct ggccttctcc 180
 ccgacggccc tcatcggcct caactccgac ctgaaagtgc ccaagtttga gttcctgtcg 240
 aacgcgaagc cgtcgctgtt cgattacccc aagccagtga cccaacagac cacagtcacg 300
 tcagtcaatg tgccggcggt catcctgtct ac 332

<210> 44941
 <211> 453
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-041-Q1-K1-B10

<400> 44941

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ggggcaccac gtacctgggc ggcgtctagt gttcctcctc acctgtgctg cgaggggagc 120
taagagactc acagggttca cgttcctgcg gtgggccacg cgggacgccg ttgtgcagat 180
gctctgcctc tggttctttg cggatgtgca cgatcaggcc cagctgttca ggctctttgt 240
ggtcgccaaa ctgatccat tctccacatc cgttaaccgc tggcttgggt cagtcgttgc 300
aggcccagag ctcatggtt tctttgttgc ctgggctgtt cttgatgcag tgggtgcagt 360
nttgttact gtggtgcctt ggggtgttgt catggaccgt gatccacggt cgtctgggca 420
caatgctgtg aaggaagggt gctatcttgt gtc 453

<210> 44942

<211> 66

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-B6

<400> 44942

gacccacgcg tgcgccaca cgtccgcca ctcgtccgcg gactcgtggg ttctagatcg 60
cgagct 66

<210> 44943

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-041-Q1-K1-B8

<400> 44943

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gggcgacctg taaccatcga aagcgtgagt gtgacaggcg acatgactcg cggcaaccag 120
cgtgaccgcg atcgtgagcg cgcggcggcg cggaagccca acggcaaggg gcccatgac 180
tggctcacc c 191

<210> 44944

<211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-040-Q1-K1-G3

 <400> 44944

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 atacggcaat gttgattttt aaagtttggt aggcctttat atttcctttt ttttattttt 120
 ttttttatat cttttttttt ttttttatct ttttttatta tctttttttt tttttttttt 180
 tttttttatt tattcttttt tttttatata ttttattttt tttatttttt tatatttttt 240
 ttttttattt ttttatttat tttttatttt ttcttattct taattctatt atattttatt 300
 ttttatatat tatatttatt ttctttattt tttttttttt 340

<210> 44945
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-040-Q1-K1-A3

 <400> 44945

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 gggggggcgc ggcctcaacc ggggggttca gctcgcctgc tgcttgttcc cgagtgcctg 120
 ttcccgtcct agtttacata gggccgatct cttccctgga ttgactgccg ccgccggtgg 180
 cggtcggtct tagcgtcatc agagatcccg tctccagcag caaccatctg ggctgcccac 240
 catcaccacg tcttcgacta acatcctttc tctttatacc atattgcaa tgttttccga 300
 tgctgttgca atgagcatgt catcgaggat cttagctttt ccttttagat cctatcttct 360
 tctaattatt ccgtcagggt acctatctt 389

<210> 44946
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-040-Q1-K1-A5

 <400> 44946

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gcaggtgccc ggcctaaacc cgccggtcga tctcgcctgc tgcttgttcc cgagtgcctg 120
ttccccgtcct agtttacata gggccgctct cttccctgga ttgactgccg tcgccggtgg 180
cggccggtct tagcgtcatc agagatcccg tcttcatcag cagccatctg ggctgcccac 240
catcaccacg ttgtcgtcaa acatccttcc tctttataacc atattgcaa tgctcgtctga 300
tgctgttgca aagagcaag 319

<210> 44947

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-040-Q1-K1-A9

<400> 44947

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ggcgccgcgc caccaagaag ccatactcca ggtcaattgt gggtgcttcc ttggaagtaa 120
tccagaagaa gagagctgag aagccagagg tccgcgatgc tgctagagaa gctgctcttc 180
gtgagatcaa ggagcgcac aagaagacca aggatgagaa gaaagcgaag aaggcggagg 240
tgagcaagtc ccagaagacg cagacaaagg gtgcgggtcca gaagggttcc aagggcccca 300
agttgggccc cggtggtggg aagcgcgtgaa agaacttagn tgctcgttctc gacattgcag 360
tcgttcctta gccaaagcca ctttcgta 388

<210> 44948

<211> 156

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-B1

<400> 44948

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tcgtttctct ttataattcg gatggtgctc attcacatta gtccaccttc tccaaagtca 120
tcaatgcttt cgatgtccat tatgtcacct ccaact 156

<210> 44949
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-040-Q1-K1-B12

 <400> 44949

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 agattatcat ggtggaacat attcattggt tggaagctat atttcattgc ttataaaacc 120
 agaatatata atatgatgag ctcataacaa acatgctgga tacccttgtc aatttagcac 180
 ctttgctgga cctgaggatc ttcatctcat ctaagccctc gttcattaaa atgaccgata 240
 aagggtgcaat tcatgccata atgggtattc tttcttcttc cgtaaagcca ttgcactgtg 300
 ctgctgctga attgattttc cgtcttataa taaatccata ctacgatcca tttcttcttc 360
 ctattattcc acatatatac aaac 384

<210> 44950
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-040-Q1-K1-B8

 <400> 44950

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 tgagacggac gattctgatg agggtttgtc tctgaagaa ggcgatgatg attcaagtga 180
 tgaagatgat accagtgacg atgaggagga agacactcca actcctaaga agcctgaggt 240
 aggcaagaag agagctgctg aaagttccgt gctgaaaact cctctatctg ataagaaagc 300
 aaaggttgcc acaccgtcat ctcaagaagc aggtggcaag aaggcgccg ccgtccatgt 360
 ggcaactcca caccagcaa aaggcaagac cattgtaaac aatgacaaat cggtaagtc 420
 tcaaaatct gcgcaaaat t 441

<210> 44951
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-C12

<400> 44951

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ttaacgcttt agcatcatca cacttcacta cacaagggtga ggatacaatt taagtcaatt 120
cttttctggt cctgctacaa tgaaggaaga tataactgct tatattacga ataccaataa 180
tatcatacta tatgttaatc gtgtattcat atcatatgac ttgatggag aattgttccc 240
aacatattcg agctttgtca aagggtgttg tgactcaaat gaccttccat t 291

<210> 44952

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-C6

<400> 44952

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ggagtgagat agtcgctatt ggctgccgtg tagttacctt atactcatct acttctaattg 120
atggataatg tgattgctg tatctgacct atcatgcatt acttgtatcc tttctttttt 180
cttaataatg ctctacctt cttctcctat aatgtttata atgctcttta attcttttct 240
cctttccttt tcttaaattt ataccattaa ta 272

<210> 44953

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-D10

<400> 44953

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ttttttcaag aaaaccttca ggcattactt taaccctttg gcatcatcac acttcactac 120
tatagggttag gtacaaatta cgtcaaattc tttatgttct gctacaaaga aagaaaaatt 180
aacttcttat aataagaaaa ccacaatat tatactatat gttaaactg tattcatatc 240
ataatacctt ttattgataa aatttcccaa aatattttta ctttttcaaa tttatttttt 300

actctaaata cccttccttt aatgtttctc tttagatttt tcaataaaat ccaattgttc 360
 ttataattaa aaaaaagctt attctta 387

<210> 44954
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-D11

<400> 44954

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 ggttttgtgc ttgtagtaga attttgaagt tggagctttg ttcttggagg aatgaatggt 120
 tattgtgaaa aagatcttta tttttcaact atatcacgtg taactattaa cttggtcctt 180
 tcaactttat ctctgtgctt gaaagtgcc agcaccact cctgcagtag ttttgggtcaa 240
 actgccaaag tactacttgg tacttagtgt tagatgtaaa tagtgtgcat gtatttagtc 300
 tctagtacag ggtgctgttt gcactttgta cttcatattt ggctctttgg ccgttgcaat 360
 aggctgagct gcacattcct agcacttagc acctttaatt ttaatcatca taaatgacat 420
 cctttaatc 429

<210> 44955
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-D3

<400> 44955

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 ctggtcctga tgggcgtatt ttgaaggcag acattgaaga ttacttggcc aaggggtgggc 180
 tgagggaggc ttttgcagct ccagggttag gttacgttga tattccaaat gcacagataa 240
 gaaagggttac cgcaaaccgc ttgctagcat ctaaacagac cattcctcat tactacttga 300
 cagtagatgc acgtgttgac aaacttgtca agttgcgaag tgaactgaat ccaactgcaag 360
 atgcttctgg tggaaagaaa atatctatca atgatcttgt catc 404

<210> 44956
<211> 155
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-D7

<400> 44956

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cccattaact ctctccatat aacaacttac cactatcaac tttcaaactct actatcccta 120
attttcatct ttataaatca cacatttaac attac 155

<210> 44957
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-E1

<400> 44957

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gatgccaaat ctctgagctt tatgaagatc gccactcacc tgcgccgctc ctgcttcttc 180
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cggatccgcc attccccctg gccctctctc cgtccctca accttctccc tcttttcttg 300
cttccctcaa caatcgcaa ataacagcac tagcggcagc ggtagaggat cttttcgagg 360
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cgtcgtcgtc gc 432

<210> 44958
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-E3

<400> 44958

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aggcgctcat catctccatc ctcgccacc gcgacgccgc gcagcgccgc gccatccgcc 180
gcgcttacgc cgaggcctac ggcgaggagc tcctccgctc catcacggac gagatctccg 240
gcgacttcga gagggccgtg atcctgtgga cgctggaccc agcggagcgc gacgcggtgc 300
tggccaacga ggcggcgccg aagtggaagc ccgggaaccg tgtgctcgtc gagatcgctt 360
gcacgcgcac ctctcgcgag atcttcgca ccaggcaggc ttatcacgag cggttcaagc 420
gctcgcttga ggaagaca 438

<210> 44959
<211> 149
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-E7

<400> 44959
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taactatgct ctcatcatct ccattctct 149

<210> 44960
<211> 120
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-E8

<400> 44960
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ttgcgaacca gtggcattta aaaagctgta tgcccactac cctcatagcc ttaatgaatt 120

<210> 44961
<211> 234
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-F12

<400> 44961

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 actctccgaa gaccatgcct agatccaatg gcaactatcc tcctcttctt acttctcatc 180
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<210> 44962
 <211> 462
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-G1

<400> 44962

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 tattatttac tttttttatt attttgtttt atttttatat tttttttttt tttattttta 180
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 tttatttttt tatttattat tttttatact atatttttat attacttttt atttattttt 360
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<210> 44963
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-A10

<400> 44963

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 ggccgaaatc cacggggagg gcttgctctc gcctttgctg agctgctccg gagcggagcc 180
 gtgcctactt gagttcaggt ttgtttcgcc atccgaggcc aagattcgga gcgtcgccga 240
 agggaggcga tgaagggcaa aggcggggcc gtggacagga ggtcctccgc caggtggagg 300

ttgctggtgc tctgcgcatc cagcttcggc atcggcacgc tcttcaccga cgggttctgg 360
acagcaccgg ataccaatag ccataccatg tctcaacgct tgatgcaaga gcaagagctt 420
caacttgatc cagaagattg catc 444

<210> 44964
<211> 336
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-040-Q1-K1-G12
<400> 44964

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ttgctgggga atttatcact tatgctgtgc ttgatcaagt tcttggtgat aaggcatttt 180
gaaaattatg gaagtgggtc atctcgcttc gtttttcata ccatttggca ggatcttaca 240
taaaggctct ttcatcgaag ttgttttgc cagatgcaat tcaaagtta tagatgacaa 300
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<210> 44965
<211> 285
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-039-Q1-K1-C7
<400> 44965

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taacttttaa acgttcgtcc ggccaatgaa cggatatggag gcatagatga tcgatgtggt 120
gctcaacgac cgctgttga agaattgtgc gttcaagtgc aactatgacg acaccatctg 180
ctacctcaat aatctgttta catcacatac tgtgactcgc ccctataata tcttcattca 240
taattgttac aacatctaca attaccacat caccctcaaa gacta 285

<210> 44966
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-D4

<400> 44966

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ttgtttcacc tccaagtcc gaggtgtccg atactgggtga cttactgggc ttttatgata 180
caaatccttc tgtatcatct atatattaat tgcaatttct ctttccttct ctatttttcc 240
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<210> 44967

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-D5

<400> 44967

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cctaatacca agaagacgta gtgcaagaac aaagagtga agaagcacac actccacaag 120
gtgactcagt ataagaaggg caaggatagc ctgtctgccc agggaaagcg ccgttatgac 180
cgcaagcagt caggatatgg tggtcagacc aagcctgtct tccacaagaa ggccaagacc 240
accaagaaga ttgttctgaa gctgcagtgc cagagctgca agcactactc acagcacgcc 300
atcaagagat gcaagcattt tgagattggg ggagacaaga agggcaaggg cacatctctt 360
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gttataaaaa 430

<210> 44968

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-D6

<400> 44968

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atgactcagt ataaaaaggg caaagatagc ctgtctgccc atggaaagcg ccgttatgac 180

cgcaagcagt caggatatgg tggtcagacc aagcctgtct tccacaagaa ggccaagacc 240

accaagaaga ttgttctgaa gctgcattgc cagagctgca agcactactc acagcacgcc 300

atcaagagat gcaagcattt tgagattgat ggatacaata aaggcaatgt cacatctctt 360

ttctaaactt catgttcacc tgattggttg ttgagttgaa gctgtgggtc tactactact 420

ggtataaaaa cattgtttca aaat 444

<210> 44969

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-D7

<400> 44969

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taataccaag aagacgtact gcaagaacaa agagtgaag aagcacacac tccacaaggt 120

gactcagtat aagaagggca aggatagcct gtctgcccag ggaaagcgcc gttatgaccg 180

caagcagtca ggatatggtg gtcagaccaa gcctgtcttc cacaagaagg ccaagaccac 240

caagaagatt gttctgaagc tgcagtgcc aagctgcaag cactactcac agcacgccat 300

caagagatgc aagcattttg agattggtgg agacaagaag ggcaagggca catctctttt 360

ctaattcttct tgttcacctg tct 383

<210> 44970

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-D8

<400> 44970

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tctgttcata ccaatcctct cttccacaat aattccaata ccaccaataa tattattctt 180
aatcttcatt tccatatctt caatcactac tcacatcact ccatcaatat attcattcat 240
ttttatattt ttttatacaa aatatactaa ttcacatctc ttttctaaac ttctctttca 300
cctttcttgt tttttatttt aaacctttat ttctactact actattatta aaacatttct 360
caaattt 367

<210> 44971

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-E3

<400> 44971

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taatgggggtg ggcaacagga gctctcatct ggaacaacca gatgctgcta catcagttgt 120
cagcactgta aagccagaag atgttgctgc ctcatcctc tgtccagaag aatcgaacca 180
tgcaactaca ccaattggca gtgctgaact atctaataatgat gttgctcagg cagctatcac 240
tcctgcagct atcactcctg attcaacaac tccaaatggg ggtaataaac tggaaacatg 300
gctgcaagaa ctgttgatc cttcacctcc atttaacctt gtagctgata ctggttctgc 360
tgacgtgtgt ccgactgaac aatatgctga atcatcaaat ttgcagaatc ctggttccat 420
ggctccgaat atcaaaccag gcca 444

<210> 44972

<211> 360

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-039-Q1-K1-E4

<400> 44972

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cagcactgta aagccagaag atgttgctgc ctcaagtcac tgtccagaag aatcgaacca 180
 tgcaactaca ccaattggca gtgctgaact atctaattgat gttgctcatg catctatcac 240
 tcctgcagct atcactcctg attcaacaac tccaaatggg ggtaatgaac ttgaaacatg 300
 gctgcaagaa ctgttggatc cttcaccttc atttaacctt gtatctgata ctggttctgc 360

<210> 44973
 <211> 193
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-E9

<400> 44973

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 atcatacaat tcataatcta aatatatata tataaatact attattaccc ttttctttct 180
 atttactatt tat 193

<210> 44974
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-F1

<400> 44974

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 attcgacagg tattgttcac agaataataa acctcaaaat gtgatatttt tatagttatc 180
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 tttattaatt tttctatttt tttttttttt tctaattctt tatattattc tttatctttc 360
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<210> 44975

<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-F10

<400> 44975

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cgccttcatg ttcgtcaact ggtccttcgt gtgagtgagg accttcccc tagcagagcc 180
agccagtcgc gcgcgcccgc ccgcctagca tttgcagctg ttatttgttg aactctgtat 240
ccaagtactg gtcgctcttg cctttgtcca ggcaatcctg tgaaacgcac ctgcccccca 300
gttcatccgt ggaacaaaacg ccttttgtag ttgcttgctt gctatgttat gatggatcct 360
ggtctgc 367

<210> 44976
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-F2

<400> 44976

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cacctccaag aaggcagctc tggttaatgg gactccttga agctttggcc cccggagtag 180
acgtgtctgt aggagtgtgg tttgttatat ctagattatc tgcagtagct tagtccatct 240
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gattgatttg ttaatgccct cgttgatgta atatttcctt tgttcggtgg atttcgggtc 360
tgtataatat ttatgcacgc ttgcacttta tccatggtat ttgtataccc gtataaggca 420
gcatggagga tgtttcttgc atgt 444

<210> 44977
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-F5

<400> 44977

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aacaatatcc aagctgtcta aaatggtgat tgtacttgaa gaagaaaaat cgaagagggtt 240
tgcaaagatt caagctctag cttcccagct atctgatctt tggaacttaa tggattctcc 300
tgtggaggaa cagcaacctt ttcgtcacgt aacatgcata atgtcctcaa cattggatga 360
tgtgatagtt ccaggagctc tggctcttga tgtaattcag caagcggaac tcgaagttga 420
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<210> 44978

<211> 348

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-039-Q1-K1-F7

<400> 44978

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gttcatccaa ctcttgatga ctctgttggg gtccaatcca ttatcattag tctcgaaaca 180
atatccaaac tgtctaaaat gattaatgta ctttaataac aaaaatccaa tacgcttgca 240
aatattccaa ctctatcttc ccaactatcc tatecttgta acttaatgta ttctcccatg 300
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<210> 44979

<211> 267

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-039-Q1-K1-G2

<400> 44979

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 caccgactac cactccctca acaactcctt cagcacctac ttctaggtcc tcgagtcgaa 180
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<210> 44980
 <211> 193
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-G7

<400> 44980

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 tgcttttagca ttctgaggtg ctgcacactt ctcatgttcc atctatcata atatcttaca 180
 tgcacgcact gat 193

<210> 44981
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-040-Q1-K1-A1

<400> 44981

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 ccggtcttag cgtcatcaga gatcccgctc ccagcagcag ccatctgggc tgcccaccat 240
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 agcatccgtc cgggtcaccg agctttcaag actgacgagg tcatccacat atttctcatt 420
 catcacctgc gaag 434

<210> 44982
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-C6

<400> 44982

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atggtccttg agctctacta caac 324

<210> 44983
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-A5

<400> 44983

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gaaaatgcat aaatatgacg cccggatatc cccattttat tttgttgaat ctgtatgatt 180
ctttggggtc ttaactatac tgctccgtat gtacttcaaa atcctatatt tttattccaa 240
agttgttgcc tatgaatttt gtac 264

<210> 44984
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-039-Q1-K1-A6

<400> 44984

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 ctggccattt ccgcaagtat gggcgcaaca tcctcgtggc ttgcagagcc tacctggagg 360
 gtgcccaggt tggatgcctc tncggtgacg gagtgc 396

<210> 44985
 <211> 357
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3076-039-Q1-K1-A7
 <400> 44985

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 ttctgttct ctattcaagc ttggttttt aattcaaagc cttatttcaa taagcctttc 180
 tactctatgc atgctaacac atcccacctt gataacaaat ccctgacata taatcaagac 240
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 catgatcttt ttactagcca tttcctctaa tattatctca acatactcat ctctttc 357

<210> 44986
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-039-Q1-K1-A8
 <400> 44986

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 cttgaacgaa aggatactgt catccatgtc caggaggtct gttgctgcac acccttggca 180
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gggcagcaag gttaaatatg aacttgacaa gaaaactgga ctgatcaagg tggaccgtgt 300
gctgtattcg tcagttgttt accctcacia ctatggattc attcctcgca ctctttgtga 360
agacagtgat cctttggatg tactggttat aatgcaggag cctgttatcc caggctggtt 420
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<210> 44987
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-A9

<400> 44987

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tctgaccgt gtttttgtga tatttccgc tgtagaagcc gttaattata catgctcttt 120
ccataaggtt ccttccttga actaaaggat actgtcatcc atgtccagta ggtctgttgc 180
tgcacaccct tggcatgac ttagatagg tctgttgc ccaaccatat tcaactgcgt 240
cattgatata ccaatgtgca gcaaggtaa atatgaactt gacaagaaaa ctggactgat 300
caatgtggac cgtttgcgtt attcttcatt tgtttaccct cacaactatg gattcattcc 360
tcgcactctt tgtaatac 379

<210> 44988
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-B10

<400> 44988

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cggtttcggg ggtcagcgga tcgagatctc ggcgtctgat gctgagtacc gctacttcat 120
cagcggcctc tactgagcca ccgactacca ctctctacac aacgccttca tcacctacag 180
cgacgtcctt tagtccaaga tcatcctgga tcgctatacg cataggtccc gcggcttctg 240
cttcatcacc ttctacacgg acgacgcgat gcggaacgcc ataaagggca tgaactgcaa 300

<210> 44989

<211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-039-Q1-K1-B11

 <400> 44989

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 tcctcctcta acactctcac ggtatactgc accatttaac attgaaagac ctcatctgca 120
 tcactttatg cagccaatat tcaacatctc ctaactgcc a tgtacagtct acaccaacca 180
 actcaatgac attacaataa tgatagatac atgcatcact gacaagacta tgatctatac 240
 tatagaagct tgctaactag ctaattaagt catttatctg agataatcga ctaccaatct 300
 ttcacgaatc agcatatgta atacagttac cttgacctat tacccttttc aaccatttac 360
 attaacatag acaactatta ctacaaacac ttcaactgat ccactaacat tc 412

<210> 44990
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-039-Q1-K1-B12

 <400> 44990

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 ggcgagcgac tagcaccagc actggtacaa ggacatgcgc ttcagcacc aggtcaagga 120
 cgaggagggc aaccctgcgt tcgccctggc caacaaggcc actgggctcg ccatcaagca 180
 ctccctcggc cagtcccacc cgggtgaagct ggtgccgttc aaccgggagt accaggacga 240
 gtcggtgctg tggacggaga gcggcgacgt gggcaagggc ttccgctgca tccgcatggc 300
 gaacaacatc cgtctcaact tcgacgcctt acacggcgac aagggccacg gcggcgctgca 360
 cgacggcacc accgtggtgc tgtgggagtg ggccaagggc gacaaccaga gctggaagat 420
 cctgccctga ggcgacgagg cctacgccgc ggg 453

<210> 44991
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-B2

<400> 44991

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cactcgtag gaacccttta attacacatc ctctttccaa aatattccta cctttatcta 120
aatgatactc tcatccatth cctataaatc ttattcttca caccctatcc atcatcttta 180
tatatatact attactccaa ccatattcaa catcttcatt catataccta tttacatcaa 240
ttttaaatat caacttttct atataactct acttatcaat gtttactctc ttctttattc 300
ttcatttttt tacc 314

<210> 44992

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-B3

<400> 44992

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agttcaattt aaaaaccttc tggccaataa attcatcctt acccactaac acctcaataa 120
tttcatcttc ttttttattc tacctcaatc acatctcttt cctactatta tacttctcac 180
cctacaaaca catcatacca tatctcaacc ttcataatca cattcctttc caaaatacaa 240
ctctcaaaac ctccatttac tacaattact ccttcttcta caaatttatc aactacttca 300
ttaacatatc ttcatctatc catacatcct ttcccaattt catacttctt cttttctacc 360
c 361

<210> 44993

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-B5

<400> 44993

eggacacgtg ctctgacacg tgggattcgt tcatcacctc tacaaaattg cccaccagga 60
tcaaactata gcctttctgg catagacatt caaccttccc ctgttacacc tcaatatgat 120

gatcttcttg atggtacttc ctcaatcaca tctcttcctt attagaatac tgcttaccat 180
acaatcacag cattccatat tgcaacctac atgatcacat tctttttcaa aaagcaacct 240
ggaaaacctc aggagactac aagtaatgct tcttctacaa atctagcaac tactgcatta 300
acatattttac acttccatgc agcccttcca aagttcatat agcagcgtat cgaccc 356

<210> 44994
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-B6

<400> 44994

cccacacgag ctctgacacc tccgttccat tcaccacgcc ccataattc acagccttcg 60
cctaactacc gagctggtga ttatcaatgt cattcttacc aactatgatt accataagat 120
caaattctta tcgacactgt cagaatcacc tgcaaacctt gataactcac tgcgcaacat 180
acctaacttt cccacctaata ccaaagttac ctactatcca tgcttgctgc tgtatcatca 240
acaattcaaa ctgtatctgc ttgagctcca aggtctcc 278

<210> 44995
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-B7

<400> 44995

tcatectccc acacgacctc tgacacctcc gctcctattc accacgcccc cataacttcac 60
agccatcgcc tatttaccac gctggtggtt atcactctca ttcttaccac ctttcattac 120
cataagacca aattcttata gacactgtca gaatcacctc caaacctga taactcactg 180
cacaacatac ctaactttcc caccttatcc acagttacct accttccatc cttgcctctg 240
catcatcaac aattcaaact ttaatcgctt gaactccaag atcacc 286

<210> 44996
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-B8

<400> 44996

cccacgcgtc cgggcaaagt tttcttgcaa gtcagcaatg tgattatctt gctgtgagcg 60
ctttactatc atatcaggaa gataagttat cacattcctg cctatttgag aataaaggac 120
attgtccttc attctactga aactatctcc agcattctct aaccctcac tcattaacat 180
gcatcaatat tcgccattat caattattac gtctttctta tgcttattgc tcgctatcat 240
ccatatctga tgat 254

<210> 44997

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-C10

<400> 44997

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gtgtcatgtg tgaactgac gagatggcgg cgtcggatgt tgagtaccgc tgcttcgtcg 120
gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg 180
aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc ggcttcggct 240
tcgtcacctt ctccacggaa gaggcgatgc tgaacgccat cgacggcatg aacggcaaag 300
aactggactg ccgcaacatc accgtc 326

<210> 44998

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-C5

<400> 44998

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gtaacgttcg tacgtccgtc cgggtgaagga gcggtagggg ggcggagatg atcgaggtgg 120
tgctcaacga ccgcctgggg aagaaggtgc ggggtcaagt caacgaggac gacaccatcg 180
gcgacctcaa gaagctgggt gcggcgacga cggggacgcg ccccgagaag atccgcatcc 240

agaagtggta caacatctac aaggaccaca tcacctcaa ggactacgag gtccacgacg 300
gcattgggct cgagctctac tacaactgaa ccggcggccc tctcttctc tcgtcaggtt 360
ggtctgaatt ctgaagtcatt tgggtgcaatt cgcttcgcgg tgatctctta agctcatcac 420
at 422

<210> 44999
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-A4

<400> 44999

cccacgcgtg cgccacgcg tccgaccagt tgtcttatcc cgccatgggt agctcttacg 60
ccacctgtcg cgctcgcca agcgggtcac tctgcttggc ccctgctatg gctcgccatc 120
gtttttccca gctcgaatct tgcccgaccc aagctgaact tcatccatgg ccactatcta 180
ttcttcttag acggactcaa ggcgcctaga ctccggtggc tttagcttga caccaactat 240
tctagtcgtg cgtgctgatg tccgagctcg tcctaaatga actacattgg tgtccgtacc 300
atgcccgtgc ttatccatgg t 321

<210> 45000
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-G3

<400> 45000

cggacgcgtg ggttctacaa aagctattgc agttcctgag gaggccaatt tgggtagcag 60
gtctggcagc aactgcaagt taggagtgga tgtgaatata atgccagcta ttacagataa 120
aagtgagcct tttttcatgt cttaaagggtg gagggagaca ctatgcaggt gtgaaacatg 180
catcaacttg tatgcacaac gaggtattgc atatcttatt gacaaggagg attctattga 240
ggaatacagag aagattgcca agcagaagag ggagatgaaa ctggagcagc agcaaggag 300
ctagacaaat tttctgaatt cacttaatca t 331

<210> 45001

<211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-038-Q1-K1-G4

 <400> 45001

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 tgtcactggg tctaccggtg gcggccacgg tgaactgcgc ggacaacacg ggcgccaaga 120
 acctctacat catctccgtc aagggtcatca agggccgcct caaccgcctc cgtccgcct 180
 gtgtcggcga catggtcatg gccaccgtaa agaagggaaa gcccgcctc aggaagaaag 240
 tgatgcccgc cgtcatcgtc cgccagcgca agccgtggcg tcgcaaggac ggtgtctaca 300
 tgtacttcca agataatgct ggagtgattg tgaatcc 337

<210> 45002
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-038-Q1-K1-G5

 <400> 45002

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 gcttatggat atttccggtt cccagtcctt ttttttgttc tgaaaagatg ggcaaaataa 120
 gtcgttactt atttgtttgt cgtgtttgct tgggtctagaa gattgttgag gattgagata 180
 actccacatg aagttattgg tttgtcaact ctatgccgta ggatgttttg catttccctt 240
 tttgccatct accatgtcaa aacgatatct tagcaacctg cgataactaac tgttatgctt 300
 actggattcc agttcatcat atgtcactag 330

<210> 45003
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-038-Q1-K1-G6

 <400> 45003

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ctggtagcat gggaatgttc taatgagttc tgctttgttt ttcaattatt atatagttaa 120
tatttggtgat gatggatatg ttcacgcatt tgctgtttac agaaaagcag gtggttacac 180
caacatataa tgaactgata gttgttggag atggtcattc aagtaccata tctgttcgtg 240
catctggtaa cgaccttata agaccatttg atgttgctgt tgttgtagcc acttgagctt 300
gacccctttt catggttcac atcaaatga ttat 334

<210> 45004
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-G7

<400> 45004

cggacgcgtg ggcggacgcg tgggtgctta agaaggcatc aagtattact ggctcagctg 60
gcatcagaat atttgctcat cttcttggaa ctattttaag gaatctttta ctaatgcttt 120
tgttgtagtg tctattcttg ttattatttg agattactct gtgttgtcac tttaatgctc 180
tgttctttgt gacatgtgtt aatctcactt tattattcat atatattatt cttcatct 238

<210> 45005
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-G8

<400> 45005

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ggtacgaggt gaagcacacc aggttcatct acaacagtga cgacgagatc gagcgggtag 120
atgaggctga tgcagctgaa gctactgcgg agcttcgcgc attgatgttc atgggcctgc 180
tggtgccgga tgggaggcac ctgcgcttcc acgacgagga tgccgactaa taagaatctc 240
agttgtgttg tcaagtgggt ggttgtcttt cgctgacacc agccaaaatt ct 292

<210> 45006
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-G9

<400> 45006

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ggatgtctgaa tctaagtagc tgtgctgtat ctgcaccatc aagaactcat gtggatcatg 120
ccgctcttac cggggcctat cattcatctt ctaccgtcaa cacacgcatg tgcaccaagt 180
acaacactac acaatgtctg aagttcgggtg atcagtgcc a tttcgctcat agcgaaagat 240
agcttgctaa tccagactac atgtctcaag aaagacctcc tatgggtggg cgatatgcac 300
gagctgaacc tatgcaacca gcttccatgg gcccttcagc aggaaacttt ggtgccatag 360
agactgccaa gatcaatgtg gacccttttc tggccagtgg cataatcagc aatgatgggg 420
tcaacactaa aca 433

<210> 45007

<211> 119

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-H10

<400> 45007

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cggttgaaaa acacccggag atatatgtgc aaaatctaca ggagataaat cttatgcag 119

<210> 45008

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-H11

<400> 45008

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ttaacgcaa gaaagctgtc cggcacacgc cgtcctgggg aactactac tactgtctca 180
tcaacgacct tattcagcac ttacacaact aactgaaaac tgcttctgac atcggaatg 240
ccactgtcaa aataactcac aagatagcta ccgccctata tgattctgac ccatcggtga 300

tacctgcccc gggctctcaa tgcgaaatga caagagactt gaccaagctt cggtagacacg 360
gatg 364

<210> 45009
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-H3

<400> 45009

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gaactgagcc ccatgggaga tgctcctggg gaggtcgttg ctcccagacc tgcaaagctt 120
actgcccgtc caaagccttt ggtcaagctg ggggccgagg agaggtcagg ctggtctcgt 180
caggaagatg aaatgcatat gaggttatca tgaggatgat tagatgcttt cgctctgtat 240
agttcctagg ttcttgggtg gtacaagttg tagcttgcca tggtagcaga gtgcacgctt 300
agatttttta catgt 315

<210> 45010
<211> 55
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-H4

<400> 45010

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<210> 45011
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-H5

<400> 45011

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ggtgcctaga agctagtacc tagtgtttgc tgctgtctaa tgacactatg caatgtgatc 120
tggaccctgg tttcttgggt gcgacgcttg tagcagccgt gttatgatta ttagtcggga 180

aaatttgggg gctccccata tgagatgctg ccgggcaaga cctctacatc ccacctcgtt 240
tcaggcgggg gacgctggaa cgtggggccgg ttgtgttggg aagcccctta aactgttgtc 300
gcttgcatth taaccttttc a 321

<210> 45012
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-H6

<400> 45012

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tgagccgtat ggctgccaat ttcagttgta ccctgcttca gtctattatt atcctgcaag 120
ctgggtggtg gcctgggtggg cttctcccag atttaccctg cttcatgcta ttattatcct 180
gcaagccggg cgggtggggtt tctcagatct atcgctcatg tagcaacttt caagcactcg 240
tccattgatt cttttgttgt cttgtaggaa acatttggtc cgacagggtg agtagacact 300
tttaaactga taaattcaat aacgtatggt ta 332

<210> 45013
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-H7

<400> 45013

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cccaggaaga agtcggtgac gcggtccgtc aaggccgggc tgcagttccc cgtctgccgg 180
atcgggcgct acctgaagaa gggccggtac gcgcagcgcg tgggcactgg cgccccgctc 240
tacctcgccg ccgtcctgga gtacctcgcc gccgaggttc tggagttggc agggaacgcg 300
gcgaaagaca acaagaagac gcgcatca 328

<210> 45014
<211> 65
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-H9

<400> 45014

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aaggg 65

<210> 45015

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-G2

<400> 45015

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ataggatggt aagggttttaa tgagttctgc tttgtttttc aattattata tagttaatat 120

ttgtagtgat ggatatgttc acgcatttgc tgtttacaga aaagcagggtg gttacaccaa 180

cagataatga actgatagtt gttggagatg gtcattcagg taccatatct tgtcgtgcag 240

ctggtaacga ccttattaga ccatttgatg ttgctgttgt tgtaccact tgagctagac 300

ccctttccat ggtacacaac aaa 323

<210> 45016

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-039-Q1-K1-A11

<400> 45016

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gcggccagtc ttcacatcat acatgagttc tcacggatca ttggtgagct ccctaaaga 120

tgttattagt aaaaggaata catatagaag gtcattttcc atctagggtg aatgagcgtt 180

ctatatgttt gcatagtgtg ccatcacact tatcttctgg tgctctaaat tctgggaact 240

tgtagttca cgatcagctc aggattccct tggctccttg agggcaatgt aatgttagtt 300

gaacaacacc ttacgccga aagtttcagc ccacgcgtcc gctttgaccg ccgnctccct 360

tccccctccgc tactgctcct cctcacccca ctcccccgca ggagcggcgg cgggcggcggc 420
gaggtcgtac cccacatcgg cgagcggcgg c 451

<210> 45017
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-A12

<400> 45017

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gagaatccaa catttggtt cttgatgcct gaccatcatc tccacagcta cttccgctac 120
cttggtgatc atcctcaact gctgaaagat ggtgctgata ctggtggcac gaataaaggc 180
aatactgaga gtgagcatgc ttcattctggc agggctatat cattgcttgg gaccacatat 240
gactcatgag acgagaatga aggcacactc ccgcgtagtt cggaaggcat gaatcctgaa 300
aatagcacga ctcttgatgt gcagggccat gtaaaatctg catcaattat gcctgtcaaa 360
aaagaaatag gcaaaaatca gaatgctcct cctcctgcag ttaaaagaaa aacaatattg 420
atgaagaaga atccgattct tactggcaat agcat 455

<210> 45018
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-039-Q1-K1-A2

<400> 45018

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acgtcctgga ctgtaaaaac cctttcggtta cccatctaaa tcttcattca aatcatcctc 120
ctttcgctat ctatcctaac accgaacacg cccacaccaa acgcccttca tatcattaac 180
acaccctgct tctaataatgc aacacgatcc ttaactgtgc attaaaccca ccaaataatt 240
t 241

<210> 45019
<211> 324

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-038-Q1-K1-E7
 <400> 45019
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 gctgggggtg gtatgttcgt cctgagcgac gtgaatttct tgatcttgcc atgggggcct 180
 gtgcccaggc gaaatggctg cttgtgatgg ggggtgtgaa gaagagctat ggcatttgta 240
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 tgtgaaatat cactgctgca tcgt 324

<210> 45020
 <211> 326
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-038-Q1-K1-E8
 <400> 45020
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 ggcggcaagg gcctgggcaa gggcggcgcg aagcgtcacc ggaaggtgct gcgcgacaac 120
 atccagggga tcacgaagcc ggcgatccgg aggctggcgc ggcggggcgg cgtgaagcgc 180
 atctcggggc tcattctacga ggagaccgcg ggcgtgctca agatcttcct ggagaacgctc 240
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 gtcgtctacg cccttaagcg ccaggg 326

<210> 45021
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-038-Q1-K1-E9
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 gcagtggaaat cagttgttgt acaacatgaa gatgggccta tttgtacaat ggtcatacat 120

gttctttgat catatactat aaacaatgta acctcatcgg ccgttatttg attgtttcaa 180
aacaaaggaa aagccttttc aaaaaaata aatacttaat aatatactat agttacaaat 240
tgtatactat acttaatcat aactatgtat aattcttgtg atttatatat ggattttctc 300
gattt 305

<210> 45022
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-F1

<400> 45022

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atggctaagc tcgctgtggc gctcctctc ctgctggccg tggcggcgctc cgcgtcggcc 120
agcagcggga gccacctgga tctcgacctg ggcttcctct cctctgggga ccgccggagg 180
gagtgccgcy ggacggtggc cgagtgcctc gccgaggagt cggatgagga gggccttgac 240
ctggccggat cccaccgtcg cgcgtctctac ggcgccgggt acatcagcta cggcgcgctg 300
cggcgggaca acgtgccctg ctcccgccgg ggggcc 336

<210> 45023
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-F10

<400> 45023

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ggcgtcattt gctgctgatt gtgcttgaca agtagagaca tggatggact cttaaaattc 120
catccatgtg ttaaatgaca tattcgagac atccttttct caataaactc tgcatcattt 180
ggtgaaaaaa aaaaaaaaaa atattaatta atttaaaaat ataaaaaaaa ataatttatc 240
ttattttctaa aaataattac aaaaatgaac catatttt 278

<210> 45024
<211> 382

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-F11

<400> 45024

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cggacgcgtg ggaaaaaaaa aaaaaaaaaat taaaaaaaaa aaaaaaaaaa aaaaaagaaa   60
aagaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa  120
aaaaaaaaaa aaaggggccc ccttttaaaa agccaaaatt taacatcccc gtatttgcaa  180
cttaaaatct ttttaaaagg gccccaaaat taaatttaat ggcccgtttt taaaaaactt  240
taaaattgaa aaacccttgg tttcccaaaa ttaaattccct ttaaaaaaaa tccctttttc  300
caaatttggc taaatacaaa aaagccccaa acaaatcgct tttcaaaaaa tttgcccaacc  360
caaaatggaa aatgaaaccc cc                                     382
  
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<210> 45025
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-F12

<400> 45025

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tcaatgccac atcggacttc ttcagatacc ggcatatcct gtctgaaatg gtttgaacag  180
ctttccgttg tgcaaacttg ttgtcccgaa atgacttggc acgtcctctg taacaagcaa  240
cgtcacctcg gatggtactt tcatttaatt cttttggtcc ctcttgcata aaataatatt  300
ttattgttgt gaataaaaaa acgttgcaat tacctatgaa aaaaaattaa aaaggtcata  360
  
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<210> 45026
 <211> 58
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-F2

<400> 45026

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agaacatgct aatgacacag cgtcaaagtc tgcatttata gagcatgagg ttcccaaa   58
  
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<210> 45027
 <211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-038-Q1-K1-F3

 <400> 45027

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 tggcgaccgt tccagttaac ccaaaacctt ttctgaacaa cctgacagga aagcctgtta 120
 ttgtcaaact caagtggggg atggagtaca agggttatct tgcttctgtg gactcatata 180
 tgaatctcca gcttgccaac actgaggagt acattgatgg tcaattctct ggaaacctgg 240
 gagagattct gatcaagtgc aacaacgtca tgtatctccg aggcgttcca gaggatgcag 300
 agatagagga tgcacagtga gaagatgcga tcaatgttt 339

<210> 45028
 <211> 331
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-038-Q1-K1-F4

 <400> 45028

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 ctgcagaacc ggcaggggaa gactcgactg gccaagtatt acgtcccgcg cgaggactcg 120
 gaaaagcaca aggttgaata cgaggtacac cggtcgtgg tcaatcgga ccctaagttc 180
 accaacttcg tcgagtttcg cacacacaaa gttatctaca ggagatatgc tggactgttt 240
 ttttcaatat gtgtggacat aactgataat gaattggcat acttggaatg cattcacttg 300
 tttgtcgaga tattggacca tttcttttagc a 331

<210> 45029
 <211> 312
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-038-Q1-K1-F5

 <400> 45029

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 tgtgagtggc tgcttaaaca agcatctggc taacagccta acacatcaaa agggtgacca 180
 ggcagcggtt ggtgaccctg cagtgatgtt ttttctctgg gctgcaaagt agaagatgac 240
 ctgtaaaagt tgtaattctac gatagattta aaattctgag ctttgctgtc tcgtaatact 300
 ataatactct at 312

<210> 45030
 <211> 215
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-F6

<400> 45030

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 gtaccgctag ctccggctct ggggtcaatat gatgcatggg ttgttaggct tagatgtttg 120
 acttgggtata cgctaccta ttatacgtga cgtgtgtctt gtaaatcaag ctagctccgt 180
 aatccgtatg ctaccttagc ttctttcgtt tcac 215

<210> 45031
 <211> 297
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-F7

<400> 45031

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 gcgctttag aaagagcagg ataacagggc aagacttttt ggtagttcaa gcggttctga 120
 cagcagttcg cagctaccac ctaacaggac ttacctacg agcggctcgt ctcgcaacat 180
 gtgaaggcat gtcggtattg accgaatatg gctttgatga tccttacttg gattaggact 240
 ggtgactggg aaggaacctc tcattgttct gcagaacatg gcacagatg aagagcc 297

<210> 45032
 <211> 344

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-038-Q1-K1-F8

 <400> 45032

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 tacatctcct gatactatgg gacggtttca atgagttctg ctgccttctt caatcattat 120
 ctagctaata tatgtagtga tggatatgct cacgcattcg ctgattacac aaaagcaggt 180
 ggttacacca tcccataatg aactgatagc tgtaggagat ggtcattcac gtaccatata 240
 tgatcctgca gctggtaact accttatcag accatttgat gaagctgnag atgaaccac 300
 ttgagctaga cccctttcca tgggtgcacat caaattgatt atat 344

<210> 45033
 <211> 222
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-038-Q1-K1-F9

 <400> 45033

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 aaaaaaaaaa aaaaaataaa atagtgaac aaaaaaaaaa tccaaatggc taataattac 180
 aaaaacgtca acaattagaa aaccaatgga aatacctaaa tt 222

<210> 45034
 <211> 320
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-038-Q1-K1-G1

 <400> 45034

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 agcaggggat cttcatcatc agaataaaaa cgtgtgttgt tgtgttgctg tgtctacgcc 120
 actagtatct ctgttggttac ttatgttcta ggtaaactgc gcagccagag cagagctgaa 180

gaatatgtac tgcttgctcg ctcttggtgtg gttgtgtcta cccctactag catttcagct 240
 ttgttgtagg taaactgcga acccagagtt gcagaacccg tactgctcgt ttaagttcat 300
 ggtgaactac gagctaaaag 320

<210> 45035
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-G10

<400> 45035

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 gatgcttgcg ctcgcaaagt gatcacagag tatgcccagc aaaccggagg aggcagtttc 120
 agctcgagct atggttgctg ggaaagctgc gtaggcgctt gttaattgct tatattgtat 180
 ctattattat tattataagt atttatgtgt cgagtaaaat agaaaaaaaa acagtgtgtc 240
 tgctgtatac tccatccttt tgctattggg tcaatgttgg cttgataaat atggtcgtgt 300
 acagtacagt gtatgcgtca gtccggttag tatcatgtat gctttgcctc tatttacaga 360
 acttggtttt ataacttttt ttcgtcacct tttatatcta aatatttttt aat 413

<210> 45036
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3076-038-Q1-K1-G11

<400> 45036

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 gaatcgaca acgtacatga catgtcattt gtcatatgca tcgcaaggtc caccgatt 120
 atttcaccag atcttctttc tcatgcctca ggcaacagca atcatgtcga ggcgttgaga 180
 gtatatcttc tgtcaaaatc tctatccaga ttgaagaacc agttccaaag tggaaatggc 240
 gtgattacgg tcgactgcat cgaagggttat ccactaatca gggttacagct aggaaagcat 300
 gtttttctaa gtgcagggga tttttatctg gctagtcgat cctaattttt gtgtgcagca 360
 tcccaatttt gactgattca cccatcattt tgccgcaatc ggcttanaca gcttggttcc 420

atztatgcat tc

432

<210> 45037
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-G12

<400> 45037

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gatgcctctg gatgagacta cgatcatatt tactccaagc acggatcttc tcgtcgtctc 120
ctccaagcac ggatcaggag cactgaaatt ctatctcaac cggttctgcc gactgggtaa 180
cttgaattct aaagatgggt gtgaaggaaa tgaatcttca atattacaat agttacatcc 240
agtacctacg aagaataagg gttgatccaa gcacgaagtg aatgcgtgat ggaatggcat 300
tctgcatttc ttctaagttg atgcatgaca gatcatggag aatgctgggtg gttgtgatag 360
ctatcacaca ctcttttggc caataattag atactctttt tgttcagcaa tgt 413

<210> 45038
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-E6

<400> 45038

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aaagtgcga accctctatt cgagaagagg ccgaagcagt tcggcatcgg cggcgcggtg 180
ccgccaaga aggacctgca ccggttcgtc aagtggccca aggtcgtgcg tatccagcgg 240
cagcgccgca tcctcaagca gcgcctcaag gtaccaccgg cgctcaacca gttcaccgcg 300
accctcgaca agaacctcgc tacgaacctt ttt 333

<210> 45039
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-C8

<400> 45039

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gaagctttat gatttgaaga tccagttgat tgaggagatg ggatggaacc atgtctcaac 120
ctacgaaaaa cagtggatgc aagtccgctt tcccccatgt ctgccaccat tttgattgtg 180
aactcatttt tacaatggct ctatcatcct gggttcagta gttgtcattt tcattgctgg 240
gtgcgtcagt tcattatttc gatggcaaac agccaactag gcaagctact ggatttgtgc 300
gtttggggac acagttattc catagttatt 330

<210> 45040

<211> 137

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-C9

<400> 45040

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ggagttgctt tttttcgttg atgtatggaa aacgagacat tgtagaaatc gaagttcgat 120
ctagcctttt atgctgc 137

<210> 45041

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-D1

<400> 45041

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gatatatggg tggagatcaa ataatggcct tgcaataata tgatcaaaga ctcgctctgt 120
tgatgataat aacatcatat atattgagga tcttttcaaa ctgctgaacg agactgctct 180
cctgaccttc ggcttcaatc tggatgacct caacaccttc ggaaaccgga tccaacgggt 240
gctcaaactc ggggttccca tctttcaaga ccagcct 277

<210> 45042
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-038-Q1-K1-D10

 <400> 45042

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 ggctgaagcg ttccatgcaa aagtggcaca acttctccga gagcttcatg cataaggaag 120
 gctcagaaga ggaccaatat gagaaaccta catggtggca acagcctcag aaacttgtgc 180
 atcttatgga ggagctctgc aggggaaact ggcgttccca tgcccaggag tcgtagttga 240
 tgggtgtacca tcacgcccct ctttatttac tttgacccat tgcagaatgc aaaatacgaa 300
 cgtgggctgg tgcagaggag taaggtcacc tggaccagtg gactctttag ggctctttat 360
 cgggtatttg tctctgggtt cttaaaagta tgtagagagt gaatgaattc ccggcatttt 420
 tgcaaatg 428

<210> 45043
 <211> 216
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-038-Q1-K1-D11

 <400> 45043

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 gctgtgtctg tgcaacaccc agcgactctt tatctaagtt ggagttgtat cgtgtccgtg 120
 cgttatcctc atatgctgag tgtctgcagg agtatgttaa tcatcatcct ggtgttatta 180
 tcgtaccttg ctaccagtga aaaaaaaaaa ttaaatt 216

<210> 45044
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-038-Q1-K1-D12

 <400> 45044

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gggggcttcg acacgctgtc tgtctgctgc ttccggcaca cagcaatatt ttctatattt 120
 gtttctcggg tcttgctggt gctgctggt actaatagta tactgcgtat aggttgtggg 180
 agtggccggg gatctgatct ctgtgctggt tgcattatgt gagtagtttt atcgtacctg 240
 atatgtctcc ttgatactca attggtatgt atataaaagg attttta 287

<210> 45045
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-D3

<400> 45045

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 tctgcagcag ggggtgtccat ggacgagtcc tttgggctga cgcttcgccg gaaggagaag 180
 cttctccttg ttccaaggat tgcttcctga taatcctaca tctgtaaaac ttgtgtcttg 240
 ctagctgtac cggaacaag attaaataat gcaaggaata aagtgactct gttcttcgtc 300
 agtaactata tattgtagga gtcctgatga tgaataa 337

<210> 45046
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-D4

<400> 45046

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 ctataacaag aagcctacca tcacctcccg tgagatccag acctccgtgc gctcgtcct 180
 tcccggggag ctgcgaagc acgccgtctc cgagggcacc aaggcgtca ccaagttcac 240
 ctcggcctag gctgc 255

<210> 45047
 <211> 298

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-D5

<400> 45047

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 ggcggaagg ctccgcggaa gcagctggcc accaaggcgg cgcgcaagtc ggccccggcc 120
 acgggcggcg tgaagaagcc gcaccgcttc cgccccggca cgtcgcgct ccgcgagatc 180
 cgcaagtacc agaagagcac ggagctgctc atccgcaagc tccccctcca gcgcctcgtc 240
 cgtgagatcg cgcaagactt caagacggac ctgcggttcc agtcctcggc cgtggcgg 298

<210> 45048
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-D6

<400> 45048

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 cgacactgta cgtcctggag aagctttcgc ggctccacat ctccaaggaa gaagagtcca 120
 ccatcttgag gttctccggg gaccccgaca ggctcgcccc caccgaggcc ttcctactac 180
 gcctcctcct cgacgtgccc aatccgatcg cgcgcgtcaa tgcgctgctt ttcaaggtga 240
 actacggtgc ggatgtcgcg cagctcaagc actcgcttct gacgttgga ttagctagcc 300
 a 301

<210> 45049
 <211> 201
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-D7

<400> 45049

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 cacagcaaga tctgaactga agcttcttcc ttccttctt ccttgggttt cctttcctac 120
 ctcgaaaact actgctctcg agtgaattga actggctgta attactaatt actggggaaa 180

aacacggttt aggttgctgt g 201

<210> 45050
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-D8

<400> 45050

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gtatttgtac tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa 120
aataaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacaaa aaaaataaaa 180
aaaaaaaaaa tgggagacta ctataaagga ccaaactat taaccacggt aatgaaatgt 240
aaaagacatt taaaagggtg ctcaaatga aattaactgg cacaagttt 289

<210> 45051
<211> 334
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-038-Q1-K1-E1

<400> 45051

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tgtcaaagag aaaacttggt ctggggactg ttactgaac ttagcagatt atgcatctgc 120
tagataatcc taccattgtc tgtgcctagc agtgcaacag acctgggtccc atcactccat 180
gtatgcctct tatcaaatat atggctccat gtattgggct atcaagattt attttggctt 240
gtggttcttg ttagataact acattatgtg acatttagtg ttatnttctc tttccagctt 300
actttaagcc tggcagaagt aagagtatct caac 334

<210> 45052
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-E10

<400> 45052

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cgtgacgata ctataccttt gcgttgtatg ttaataatct gctaacgact gcaattctag 120

agattcattt accgtaaaat tgtgaccgct gtagatgact ctcgatttaa cactgagacc 180

attcatatga aacagtgtct cctctctttt tggactacaa aattttggca catagcaggt 240

gtacaagggt aaacctttta aaactttcat ctatgggggtt cgtgatagag tagccatgtt 300

tacgggctcg tcttgatcac ttgtgctact gcaacatttg gtctt 345

<210> 45053

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-E11

<400> 45053

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tgcgacgaac ctgattgtgg agaccgccct aaaggtgata gagtgcgaac agatgttcct 120

ccaaatgtgc atgatgtcag tcttccgggg ctctgcgaag ctcatcgaca aacatagggc 180

gctgtttttg cagcactact taccatggtc aacacaagct ggtctcacgt gtactgatct 240

gatgtctgta tattacgata agcactttca cgaagacctg catgaagaga gaaggaactg 300

atgaatcctt tcttgcccta gtcccaaaaa gagcactgta tatgacggca ttgtctgcgt 360

gaactatcta tct 373

<210> 45054

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-E12

<400> 45054

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gggtccaaca cagcagtacc cggaaggctc cgattttgac gatatacagc gcgaccggga 120

gtgcgtcatg tgcttgagcg aggagatgtc cgtgggtgtc ctcccctgcg cccaccaggt 180

cgtctgtgcc aaatgcagcg acctccatga gaagcaaggt atgaaggaat gcccttcgtg 240
 ccgggcctcc atccagcgca ggggtgcgcgc ccggccagac ggttgctaga tttcacatat 300
 accatttggga ttttactttt cttcttttctt tcaccttgat tgctcagctt aagttgatgg 360
 aagattggag ggaataatca tgtggtgtga gtggttgaaa ctgtgacaat aatacatcgt 420
 ttaacaccta acaagcccc 439

<210> 45055
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-E2

<400> 45055

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 cggagcggat gtattcgctg tcgacgacgg cgtcggtcat cccagcagcg cggcagcagc 120
 tcttcagctt gccgccattg caccgcgaga gctccccgcc gtccctggag acgacgccgc 180
 cgtcggctgt tagctcgggtg actactacat cttttcagcg tgctaacgac ggcgacgagc 240
 tgtggcggac aggcacaggg tacggctccg ggggtgtccgt ggcgcagtcg acgtcaacgc 300
 caccatcagt gccttcgacg gtcgtttcgg atcag 335

<210> 45056
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-E3

<400> 45056

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 gtggagacgc cagtcgtgag ggatcagaag atactgcacg ccgtcctcct tcagtgaag 120
 cttctatggc agtttccttt ggacagcgag ctgcacatcg ggcttccacc agggattcat 180
 ctgcagctcg tcgaacagtc acccgtgatg gtcacgaag ttcatactga ccattctgcc 240
 gtagtggaag ccgtgagggg cctgatcatg accgctctga ccgggaactg gatcattct 299

<210> 45057

<211> 331
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-038-Q1-K1-E4

 <400> 45057

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 gcccttgtgt gatggttgaa ctgtctaact tgtctgcaat ccatgaagtt ggacatgacg 120
 gtcttcatac agtacttgag atgacagatg cattccctat gcaacgaagt actcttgacg 180
 ttcccatca atttaagcat cttgggcttt atattggatg cagttggctt gaagtaaatt 240
 taatctttgt tgcaggcctt cgatgaggcg atctctgagc tagacagcct gagagaggag 300
 tcctacaagg acagcactct gatcatgcaa c 331

<210> 45058
 <211> 328
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-038-Q1-K1-C7

 <400> 45058

 cggacgcgtg gggccctgag ggactcgagc atggcgggct acatgtcgag caaaaagacg 60
 atggagatca acccagagaa ccctatcatg gatgagctcc gcaagcgtgc cgaggctgac 120
 aagaatgaca agtcagtcaa ggatctcgtg atgctgctgt tcgagactgc tctcctgacc 180
 tccggcttca gcctggatga ccccaacacc ttcggcaacc ggatccaccg catgctcaaa 240
 ctcggtctga gcatcgatga ggacgagcct gttgaggcag aggctgagat gcctcagctt 300
 gaggacgacg ctggtgaaag caagatgg 328

<210> 45059
 <211> 331
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-038-Q1-K1-E5

 <400> 45059

 ggaaatgtct gtcttgggct tctcaacgga acggagatta atcatgggtc agcgatcatg 60

gtaagagatg tttctctgcg cggcaagttg gttgtgtacg acaatcaacg gaagcagatt 120
 ggatgggcag attcagactg caccaaact caatcacaaa agggctttcc tttcttcctc 180
 tgacgaagca tcaactcgcta cataatacat gtgtaaagcg taaatagtga acgccattgt 240
 attgtagaat acattattaa gtggagactg cctttgtgta tgggtatatc gttccattgg 300
 aactgtcaga aatccttcac tgtgtgttac c 331

<210> 45060
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-A6

<400> 45060

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 gcaacttgag ccagataaaa acgatgatgg ggtgcaagca acgcagcagc agctagagct 120
 cacaaaagag aacactgaag caagagcttc aacatgttcc accttccaag agcttcaaca 180
 tgttctgctc cgggtggctca agaggcaagc gtcgcacccg ccccgatttt gattccaagg 240
 acgaatacaa cattccccgc ggactagcga tcaccgtacc ttctgtgcct cgaggtggag 300
 ccgcccgtct gcgactcgcg c 321

<210> 45061
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-A7

<400> 45061

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 ttgataggaa aactgctggt ccgctcatta ttgcttgag caagggagga accagtattg 120
 aagatcttgc ggagaagtat cctgatatga ttatcaaggt tcctgttgat gtatttaaag 180
 gaataacaga cgaggatgca gctaaagttg ttgatggctc agctctaaag tcagcggata 240
 ggcagtcttc tatagaacag attaagaaac tgtatgaact tttctgcaag tctgattgca 300
 cattgctgga gataaatcct ctggcgag 329

<210> 45062
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-A8

<400> 45062

gatgctattg acactcctct aagccgcacc tgatggattc tatctttatc caggcattgg 60
gccgtcttgg aaatgcactt actacgatta cgtcaccact atctcttcgc atttgaatca 120
tgtacaatgt caaagagaaa ccttgctctc aggactgttc actgaactta gcatattatg 180
catttgctta atcatcctac cattgtatgt gcctagcaag ccccatacc tgggtccata 240
cactccatct tactttaagc ctgtcagaag tcacagtatc tcaacatgaa cctg 294

<210> 45063
<211> 208
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-A9

<400> 45063

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ccggatgggg ttgaaaatga agaacggcga caaatcaac ccactcctta acaaaaccga 120
aggcatcggt cttagaacaa cttaaacct tcgtttggtt ttcggtcttc cttattataa 180
accaaataga aaaaatcttt ttaaagga 208

<210> 45064
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-B10

<400> 45064

cacgcccca ctgatctgct ctgttgctgg tgactaggag cagtagcgag agggattctg 60
gatggccaag tcgaagaacc acacggcgca taaccaatcg ttcaaggcgc acaagaacgg 120
catcaagaag cccaagcgcc accgccagac cttaccaag gggatggacc cgaagtttct 180

gaggaacttg aggtactcaa ggaagggcaa caagaagagt ggcgaggctg agtccgagga 240
gtaagatgat ggtgattgag tttgtggcga caaatgcatc tcttgtatcg ctaagagtct 300
tagctgtgaa cttagttctc acttctgtgt gactgtgatc aaaggagatc catcagttgg 360
taccgaagtg tattttatgt cttgttggtt acctggaatt taattaaaac catcagttgt 420
atccttttga gaattg 436

<210> 45065
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-B12

<400> 45065

cggacgcgtg ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagaggaa 60
aggaaaaaaaa aaaaaaagga aaaggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacaac aaaaaaaaaa aaaaacaaaa 180
agaaaaataa aaacgagata tacaaaaaaa aaaaaaaaca aaaaaaataa aataagaaaa 240
aaaaaaaaaa aaaaaagaaa ggaaaaaaaa aaaaaaaaac aaaaaaaaca aataaaaaaa 300
gagacacaag aaaaaaaaag aggaatgaac 330

<210> 45066
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-B2

<400> 45066

atacttcaag aagtgagtga gaagttaggc gacaaaattc aagttgtgaa aattgatact 60
gagaagtgca ctagcattgc aagtcgttac agaattgaag cattgccaac ttttatcata 120
ttcaaggatg ggaaaccttg ttatcgcttt gagggagcat tacctgttga ccagatgatc 180
gaacagattg aaaatgcttt ggcagtcaca aagtagcaca tatggtgatg agcagggcag 240
aa 242

<210> 45067

<211> 308
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-038-Q1-K1-B3

 <400> 45067

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 tacttaatta ttagagagac ccttgtcata ttattatgc tatttgcggt gtaactttat 120
 gatttttttt ttatgtacct gtatgccttt tatactcttg tacataaact actagtttta 180
 gttcgtttat actgtccatt ctgtattttt gatgtatcat ctctcaactc tgccactgct 240
 acaccaactt atttcatgta taagtgtact aatacatggt catcatcatg atacattcct 300
 tatattct 308

<210> 45068
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-038-Q1-K1-B4

 <400> 45068

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 cgccaccgca aggtgctgcg cgacaacatc cagggcatca cgaagccggc gatccgtatg 120
 ctggccagga ggggcggcgt caagcgcatc tctgggctca tctacgagga gaccgcggc 180
 gtgctcaaga tctttctcga gaacgtcatc cgcgacgccg tcacctacac cgagcacgcc 240
 cgccgcaaga ccgtcacctg catggatgtc tgctacgcgc tcaagcgcca tggccgcacg 300
 ctctacggc 309

<210> 45069
 <211> 314
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-038-Q1-K1-B5

 <400> 45069

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gtcatgagaa tcaggctatt tacgttgtaa ctttaggatt ttttttttat gtacctgtag 120
gcctttttaga ctcttggtaca taagcttcta gtttttagttc gtttatacgg cccatcctgt 180
agttttgatg tagcagctct cagctctgcc actgctacac caacttatgg catgtataag 240
tgtactaata catgggtcatc agcatgatac attcttttaga tgcttggtca atntttttaga 300
tgcttggtgg tggc 314

<210> 45070
<211> 74
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-B7

<400> 45070

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gccacgcgtc cgat 74

<210> 45071
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-B8

<400> 45071

cccacgcgtc cgcccacgcg tccggttcaa tctcgagaag cctgttcttg ttgatgttga 60
gcaactgaag aaggagaagt tctctactcg gttcatctc cgtctctgtc ttgatggagg 120
ttaccatgtt cttgacgagt ctacaaacta cagcagtgc ctgagaccaa ctgccaagca 180
actctggaag ccgtctattg gtttgcttga acttggtgtc cttggtgctc aagggttgt 240
tcccatgaaa actcgagatg gaaaagggtc atcagacacc tattgtgttg ctaagtatgg 300
gtcgaaatgg gtaaggacac ggacca 326

<210> 45072
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-C1

<400> 45072

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gacaaagagc tgtctagtta ggggcaggat tatggctatg gtcagtatga gcaacacaaa 120

ggtcacatg catatgggta cagtcaagat gtacgtggac atgaaactga aactcaaag 180

cggcatgagc acgaatatta tcgagttgac tcgtatggta aaatggaagc ctacaatcag 240

atgccgtcaa acaatgctga gccagaaggc cc 272

<210> 45073

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-C10

<400> 45073

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aaggaaaaaa aaaaaaaaaa aaaaggaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg 180

gggtacatta aaaaagacca aagtacacgt acatgcaacg taaaagctaa actatagaga 240

aaggaaaact aaattaaata caaaggacag cacaacaaaa aagactggaa aagaaaaaac 300

ctggcgtaac caaatgcaaa ttgattagaa taaaactccc tataccaaac tgggaataaa 360

ataaaaaagc accaaacgaa gaccaacaa aaaaatcagc cagactgaaa aggaaaaggg 420

acccccatt 430

<210> 45074

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-C2

<400> 45074

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tttgttggtg attctgtatc atatggagta tatcagagag aggagtctga ggccaatgaa 120

gaatcgacca ataaaagtca gaatccagtg ccaagttcat caacatctaa tggcaaggag 180

gttgacgagc ctgacaacca tgatatcgat gatgacgatg acttatacat tgatgaattg 240
aatgaacttg aagcaagcct gtcgagaact tccatccaaa ttcgagagcc tggctaggga 300
acatcatctt gatc 314

<210> 45075
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-C3

<400> 45075

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gaggagctgc tccgcgccgg cgccagggtc gacgtcaagg acgtcgacgg cgggacggcg 120
ctcgaccggg ccaccgacga gaccagagag ttcattctcg gcttcgccgc caagaaggcc 180
tgaacgacca tgtgcaggtc aatcgtgccc ggttcttctg gacatttggc tgcattgtaac 240
taaattcttc gttttctgga attggtggag tgttcaaccg ggggtgaaca agctgtttgc 300
agaggtagct ttccgtagtc agctgtattc ttactga 337

<210> 45076
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-C4

<400> 45076

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gaatctcgct ctagccctag ccaaagcca gacccatccc agccctagcg acaccaacca 120
gctcgccagc gaccatgggg aaccgggaga agctgatgaa tcagatcttc gacctcaagt 180
tcacctccaa gtcgctgcag cggcaggcgc gcaagtgcga gaaggaggag aacgagcaga 240
agctcaaggc caagaaagcg atcgagaagg gcaacatgga ctgcgcccgc atctacgccg 300
agaacgccat tcgcaagcgc aacgagcaca tgaact 336

<210> 45077
<211> 286

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-038-Q1-K1-C5

 <400> 45077

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 aatgataatt tcttaccagg acatttttct gaacgccccca' taatgcctgg ggtccatatg 180
 gtctatgcta tggcccaggt tgcgggtctg gtgatgactc aacctgatat tgggtggatct 240
 ctagacaact taattttcgc cgggattgac aaagttagga tcaaga 286

<210> 45078
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-038-Q1-K1-C6

 <400> 45078

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 gtgtgccctc ttccctgtgg ttctccctga ttctcacagc gaaaacagta ggggaagccc 120
 taaacaaacc agttcttgag gcatttggca atgcaaaaac tatcaggaac aattcaagtc 180
 gttttggaat tttttgttga gattcagttt gatgcaaatg ggaagatatt aggagctgct 240
 ataagggcct atcttgttga aagatcccggt gtctgtcaaa tatctgatcc agaaagaaac 300
 taccactgct tttgcatgct ctgttctgc 329

<210> 45079
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-038-Q1-K1-A4

 <400> 45079

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 gcatcccgta tatggaacat ttgccaccgg aggggtgtgat ggatttgtga atgtgtggga 120
 tggcattaac aagaaaagac tatatcagta ctccaagtac gcatcaagca tcgctgctct 180

atcattcagt aaggatgggc atctgcttgc tgtggcatcc agctacactt atgaagaggg 240
 agaaagaacg catgaacctg acgctatatt tatccggaca gtgaatgaag tcgaagtgaa 300
 gcccaaaccc aaggcattga gcagccccc 329

<210> 45080

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-G11

<400> 45080

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 gtcttggtat gacaactagt ggggctacag caaccgggtt ctggatctga tcgcccacat 120
 ggccctcgtc agcgctccg ccaagctctg acgtccgtgc tcggctctcc agtagtagcc 180
 tacgagaaaag gctgcaattt tgacggccat tttatgctag ctgttggtgtg gaataaagat 240
 caaatgctgg aacacttata actcgcgca gactggactc agatccatgg gctgtatttt 300
 agatgtagaa gggggcaa at ttgcaccgta ctaccatggc atggctatat gcggaactgt 360
 cgattgatga gtccttgtag agtttgtaga cttgatgata tgttgatttg ggagccc 417

<210> 45081

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-G3

<400> 45081

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 tgcgatatga cgaaactcac taggaactca ggacttgctg acacatatag acccaggtat 120
 catactcact tgcgtatacg aatcaagaac attgaagcat ctgagcattc caagtacttt 180

<210> 45082

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-G4

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tacaggggttc gagccaaatt cgcatacgaa gctccttaat gatatagcca aatctaccaa 120

gacttaccaa aaggtggaaa cttccacttt aaatgagggt acacttaatt gatattgcaa 180

taatattcag acaatgcttc atgtctatca tgtacaggaa cctaaaagtc atgaaagtgt 240

gcaaatccca tattctgaag aaatattat 269

<210> 45083

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-G5

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cgcctacgcc ttcccgccct cctccaagtc caatgcctcg cggccaccgg ccccgacgcg 120

cccgcgccgc ggtggcacgc ggcaactgtc gccgcggcgg ggctgtacct ggccctacgtc 180

gcagccggcg cctgcgtggc cttcacgcgg tccgaggcgt tccggtgggt cgtggcgctg 240

gcgcctgggt cctacaccgc tacgctcggc tttatcatgc tcgccatggg ccttacgtc 300

caacttaggg acttcgacgc cctactacgc gacaggcccc tcgacatttt gatccggtgt 360

gccgaccaat acagcataat gcctggtggt ggcgctatca ttagccacgc gctggggcctt 420

tccccgttgc 430

<210> 45084

<211> 434

<212> DNA

<213> Zea mays

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<400> 45084

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ccaagatgac gaagcgcact aagaaggcag gaattgttgg caaatatgga accagggtatg 120

gtgctagctt gcgtaagcaa atcaagaaga tggagggtatc tcagcattcc aagtactttt 180

gcgagttctg tgggaagttt gctgtgaaga ggaaagcagt tggaatttgg ggggtgcaagg 240
 actgtgggaa ggtgaaggct ggtggtgctt acaccatgaa cactgctagt gcggtcaccg 300
 tcaggagcac gatccgtcgc ctgagggagc agactgaagc atgatatagc tctttatatt 360
 attgggggtt cctgtagttg ctcttgtcag gcatgtttgt gggggcctta tctagtggaa 420
 atgtggaatc actg 434

<210> 45085
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-G7

<400> 45085

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 tcaaaaaata agaagaaagc aaaacttgta cagagtgggtg gtgatgtctt gacgaattgc 180
 aaattagctg tgcgtagtcg gctggggcag ggtaaacaaa gtggctttgt ttatggtcct 240
 ttccaccctt ctggcgcaag gaaacatgga cttgatggcg gcaataagcc tgggcaaagg 300
 gagagggctg aggactggga gagcctttct gcttcatttc gaccacagta ccagaaccaa 360
 gcactcagtg atctatttgt ccattatgtc gacgcgtgga agacatggta ttctgaat 418

<210> 45086
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-G8

<400> 45086

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 accaaaaggt ggaaacttcc actgtagatg tggttacaca aaatggaaag ggcaataata 180
 ttcagacaag gctccatggc gatcaggtac aggatcctaa aagtcatgaa agtgtgcaga 240
 tcccagattc tgaagaatta ttagcaactg ataatagtaa aggttgcaat ttagctaaac 300

tcaacaatgt ccttgaagag tcagtccaag aggaaacaat agctaagttt cgttctgatt 360
 tgcaaccaaa gcccaggaag gcttcatccc atgttgctgt gattaaaatt aatgggtgctg 420
 cttgtgctcc aatagttgga gtttgtgaca gcc 453

<210> 45087
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-G9

<400> 45087

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 gctcgacgag gacgacatcg cgctcctcaa gacctatggg cttggggcgt actctactag 180
 cattaagaag gtcgagaagg agatcaagga aatggccaag aaaatcaatg acctttgggg 240
 tataaaagag tctgatacag ggttggctcc acctagccag tgggatttgg ttccagataa 300
 acagatgatg caagaagaac aaccgttaca agtggcaagg tgtacaaaga tcataagctc 360
 taatacggat gatgctaaat atgttataaa tgtaaaacaa attgcaaagt ttgttggttg 420
 act 423

<210> 45088
 <211> 263
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-H1

<400> 45088

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 aaaaaataag aagaaagcaa aacttgtaca gagtgggtggg gatttcttga cgaatttcaa 180
 attatctgag cgtagtctgc ttttgcattg gtaacaaaat ggcttctgat atggtccttt 240
 tcacccttat ttcgcaagga aac 263

<210> 45089
 <211> 263
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-037-Q1-K1-H12

 <400> 45089

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 ccgagctaata caccggagg gggatgtgcc caaccttcat gtgatcaagc tcatgcagag 120
 ctttaagtcc aacgagtatg ttacggagac cttatactgg cagtactact actggatatct 180
 caccaacgat ggcattgatc acctactcaa ctacctgaac cttccgtctg agatcgtgcc 240
 tgccacgctc aacaagtctg tca 263

<210> 45090
 <211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-037-Q1-K1-H2

 <400> 45090

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 tacaagattc cagccaaatt ctcatacgaa acttcttatt taaatagcca aatctcgtat 120
 gactaaccaa aaagttgtaa cttccactgt atattttggt acacaaaatt taaatgtcaa 180
 taatatttat acaaagctcc atttctatca ttacatcat cctaaaattc attataatgt 240
 tcatatccca tattcttaata aattattatc a 271

<210> 45091
 <211> 279
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-037-Q1-K1-H3

 <400> 45091

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 atagtgcacat ctgcagctgc atcaggggca caggatcagg cagaaaccga ccacatggct 180

agcggatgct acagatcagc agaaactacg gcgaatttta caaataatgc tatgtctcag 240
tcccaacctc aatggaccgg tccgtcccct gtggatgac 279

<210> 45092
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-H5

<400> 45092

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gggcataacc atgaagtgcc tgcttccagg aatgcaagcc atgagatgct tgcagctccc 120
atgaagccgg tgggtgcatcc tattaacagc agcatgccag gctttggtgg catgatgaga 180
accatgcatg gccagggcct tcaacaatca atattctcag gcagccgaaa gtgacaccat 240
cagtcttgac cttggtgtag gtatcagccc taaccacagc gatgcaacaa accagatgca 300
ggcctcagtt ccagaacctg tgcagtatca gatgagacac atgggtcctg tgtacggaag 360
catgggactt ccaggaatgc ctgtgccagc aatacctggc agaatgtacg gttccagaga 420
ataaaaagga a 431

<210> 45093
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-H8

<400> 45093

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ggtgatgtgg gcattctcca tttatttggg agctgtcggc atatttccac aacttgtggt 120
gctacagcgg acaaggaata ttgacaacct gactggccaa tatgtcttct tcttgggtgc 180
ctaccgtgtg ctttatatcc ttaactggat ttaccgatac ttactgagc cccattttgt 240
ccactggata agttggatgg caggaatagt gcaaactctg ttgtatgctg acttcttctt 300
ttattacata atgagctgga agaacaatgt gaagctagag ctgccagctt aaggttgctg 360
ctcctgtccc caagatatag tagggtaata tatcagatag gcaggcccca tacacagcat 420

gatcatt

427

<210> 45094

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-H9

<400> 45094

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gcggcctcgc ctggggccacg gacgaccact acctccacaa cgccttcagc acctacggcg 180
aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc ggcttcggct 240
tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg 300
agctggacgg ccgcaacatc accgtcaacg aggccagtc ccgcggcggc cgtggaggcg 360
gcggcggctg cgggtacagt ggtggccgtg ga 392

<210> 45095

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-A10

<400> 45095

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gagagcttga agagacggtc cagatgcttc aagaaaagcc ttctgaaatg cttgcgaga 120
aagaagagtt gcttaacgct gctgtgcgtc gtgtggatgc attggaagct gaactaattg 180
taacaaagaa ggctttgcac gatgctctta tcaggcaaga tgaactgctc gcgaacatcg 240
acagcaagga gattgccagg gctcagagaa agaagaaaac aatgttctgc tactaggaca 300
acacctgctt ccgtgaggag atgacaaacg cggcggaccc attcatttta ctgacacttg 360
tgaatcaaca ggtttccgtt gtaaataaac aaaattcttg cataaataaa atgttttttt 420
tt 422

<210> 45096
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-038-Q1-K1-A12

<400> 45096

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cccacgcgtc cggcagcaga tcctcgtgca aagcaaagcg ctageccttc tactgtcccg   60
ggggcccgcga cgaagcagac ggcgaggaag tccactggcg gcaaggcgcc taggaagcag  120
ctggccacga aggcggctcg caagtctgcc ccggctaccg gcggagtga gaagccccac  180
cgtttccgcc ccggcacctg cgcgctccgg gagatccgca agtaccagaa gagcacggag  240
ctgctgatcc gcaagctgcc gttccagcgc ctggtgcgtg agatcgccca ggatttcaag  300
accgaccttc gttccagag ctccgccgtc gccgcgctgc aagaggcgct cgaggcctac  360
cttgtcgggc ttttcgagga cac                                     383
  
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<210> 45097
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-G10

<400> 45097

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gtccaggcag atctgctact cagaacgagc acagaactgg agatccggaa gcgctcttca  120
aagaagacac gacgccatca gctaaagctt ctcccctgcg gactgggtcg gaggatcctg  180
tggcgccaaa gcccaaggac gcggcctttg ctagaggcaa gccgtatgct gagccagcaa  240
cccataaaca cggtgctaata accagctatg aaagaaaaac cggcacggag agatcgcttc  300
tgcattctca ccaccaagca aggctcgtaa acagaggagg tgtttcgtct ctttcattggg  360
aacgcacggg ttcgtcagaa ggaaaccgtg gagctgcgcc caccacacct gggagggtcgt  420
ccaagatg                                     428
  
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<210> 45098
 <211> 260
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-D9

<400> 45098

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gtgctgggtc gatgcttcta ttgccatacc caatcatgta ctaacttatg ctaacaatta 120
ttataccatg aatcacttgt ttgaaagaga cttcatcacg taatcacatc ataacgtaat 180
ttaactttac caaaatattt atgacaatca tcctaaactt agaccctaga cataatatcc 240
aacttatgca caatcatgct 260

<210> 45099

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-E12

<400> 45099

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cgaaatgggtg aagcacaaca acgtcatgcc caacgggcac ttcaagaagc actggcagaa 120
ctatgtcaag acatggttca accagcccgc ccgcaagcag aggcgcgcga tcgcacgtca 180
aaagaaggct gtgaagatat tcccacgacc aactgctggc cctcttcgtc ccattgttca 240
atgccagact ctcaagtaca acatgaagtc aagggtctggg agaggcttta cccttgagga 300
gttgaaggct gcgggcattc caaaaaggct tgctccaacc attggcattt ctgtggatca 360
ccggcgcaag aacaaa 376

<210> 45100

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-E2

<400> 45100

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ctgccatctg cggctccctc cgcaaggcct ccttcaaccg cggcctcctc cgcgccgccg 180

cggaggtgtg cgaggactcc atccccggggc tccgcatcga cgagctcgac atctccgacc 240
 tgcccatcat caacaccgac ctcgagaccg gcagcggcag cggcaccgtc ttccccgccc 300
 ccgtcgaggc cttccgcgcc aaagtctggc aggccgactg cttccttctt cgcgcgccc 360
 agtacaacta cttcatcggc accccccttg aaaaacgcgc ttgactggg 409

<210> 45101
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-E3

<400> 45101

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 aggcggagcc gacaacggtg tgagccccgg caacgtcccg gtgtgctact acggcgcggc 180
 ggggcgcgtg ccggcggcgc tggagcggcg ggtgcgcgcc gcggagctgt tcatgcggtg 240
 cgcggcgtgc gggctcgcgg tgctcgcgc gccgctgctg ggcgccgacc gtcagacccg 300
 caccttcttc tccgtggaga aggcggccc gttcacccgac atgcaagcgc tcgtattcct 360
 ggtgatagca aacgggatgg cagcgtgcta cagcctgctg caaggcggga ggtgcctggt 420
 gagcatcctc acaggtgggg gcgtacta 448

<210> 45102
 <211> 441
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-037-Q1-K1-E5

<400> 45102

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 tgtgggcacc tagtcaagtc cgatggggtc atcacctctt gcctcgattg cttcttagat 180
 gggggcagcc tgtacctctt tgactacgct gtgtcgctg ctttcttctt cgccaaagca 240

cggggaggaa cgtgcaccct ggctgcctct gaccccagtg acgttgtgat ccaccgtgca 300
 cgggtacctnc tggacaatgg gtttggcatg tactccctgt tcaagaacaa ctgcgaagac 360
 ttcgccatat actgcaagac tgggctgctt gtggagaccg ctttcagtgt tggccgtagc 420
 gggcaacttg cgtctctgac t 441

<210> 45103
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-E7

<400> 45103

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 acatattatg cgacaacaca tgtccatgcc tggaagattt cctccagaag gcttgccaag 180
 aggtgtacct ccatctcagc ctgtgcatca catggctgga tatagacctg aaatgggtaa 240
 tgtcaacaat gttcatatgc accctacgca gcccaactat ggaaaattt 289

<210> 45104
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-E8

<400> 45104

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 caatgctact acaacagaag atgccattgc acagttgcgc tctagaaggc tcatgagtag 180
 aatggaggtc ccatctggtg ccaccaccga agacaggact gatcgaactg agggtttcga 240
 tagtgatctt ggtccctctt catctagtgt atcaacagca actcctccca atggtcgcaa 300
 cggaaggctg ctgactccaa cctctgatga tggcgagtat gtggagtact catttgatag 360
 cttgtcagat atgcctcaca ccgtggaaga tgaagattga atgctaattgc aagcaattct 420
 tgaatcactg aaagacta 438

<210> 45105
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-037-Q1-K1-E9

 <400> 45105

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 caccgggggc gacgatgtcg gggcgcgga agggcggaag aggtctgggc aaggcgagg 120
 caaagcgcca ccgtaagggtg ctccgtgaca acatccaggg catcaccaag cccgcatcc 180
 gtaggctggc tcggatgggc ggcgtgaagc gcatttcagg gcttatctac gaggagaccc 240
 gcggcgctact caagatcttc cttagaagc tcacccgga cgccgttacc tacaccgagc 300
 acgcacgccg taagactg 318

<210> 45106
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-037-Q1-K1-F1

 <400> 45106

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 caagggatgt gagctgagc tcaatcagag ncgcttgagg cttatctctg angaaaacgg 120
 ngatgaagat gaatctacaa agctgaangt ggaagatgtg cagttatcaa tggatgatct 180
 tgagatgatt caagtcattg gcaaaggaaa cgggtggtgt gtccagctag tgaggacaaa 240
 atgggtgggc acattatttg ccttaaaggg tattcaaatg aac 283

<210> 45107
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-037-Q1-K1-F10

 <400> 45107

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aaggccgacg agatcgacaa ggcgctcgcc gcgatccgcg ccgccgagcg cctccccgatt 120
gatctcagct actacagggc ctactgctgc tacaggcaaa acaaactgca tgaggctctt 180
gagcttttaa gaggccaaga agaaacttca gctgttctcc agctggaatc ccagatcttt 240
taccgactag gaagaatgaa tgattgcatg agtagctatg agaagcttaa aaaaatttaa 300
aattgactca atggatctga agataaatat cattgctgct ctagttgctg ctggaagggc 360
ttctgaggtg caggcagcta tgaaggcgct taaggttgat cttaccacga gagcactcag 420
ggatactcgt agttntgagc tcgc 444

<210> 45108
<211> 268
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3076-037-Q1-K1-F11
<400> 45108

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gcgtccttcg aatacatgaa agtgcttacc agctttctca atttcgacat tgtttccaca 120
gctgtatatt cctatatggc ttcaatgtga tgctacgttt tcaaaataga tgatgctcta 180
gaccttctaa agtcacggaa tgctctactg catgactnta gctctgatat tatatctaata 240
gctttgtatg aacaccatgt gcatgcat 268

<210> 45109
<211> 442
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3076-037-Q1-K1-F4
<400> 45109

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cggacgcgtg ggcggacgcg tgggttttca gcctcctaca ccaattcctt ctaccactca 120
aagcaacctc cagtcttcca acaatcctga aaagccagca gctaaagcag atcctgccaa 180
ggcaaccgct aatgggtgttc caaatggtac tggtcacact cacagttaca gtggaactgt 240

accaagccaa caaagttcag cactgacgcc tgatggaact tatagggcgc ccttgctagg 300
 tggagttcct tctgctgggt acctagacac gacatattat gggatatgaca gcacaggggc 360
 acaatttgca tggatatgat gctctgctta tgcaaatgga cagcaaagaa caaccacaac 420
 taaatcgttt ccatactcgt ca 442

<210> 45110
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-F5

<400> 45110

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 gtttgatcta tgacatgatg ctcaacaaca tcttgatctc ttattggacg ttcaaagata 180
 actggcttat actccaatga agcgatctgc ggcttatctt tgacgaaaac tgggatgaac 240
 atgaatctac aaagctgaat gtggaagatg tgcagttatt aatggatgat ctagagatga 300
 ttcaagtcac tggcaaaaaga agcccggtgtg ttgtccaact agtgaggcac aaatgggtgg 360
 gcacattatt tgccttaaaa ggtatttaaa tgaaca 396

<210> 45111
 <211> 317
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-F7

<400> 45111

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 aagctcaagg agatctggta tgagtatata attgaaatga actacgagca aatgttaaaa 120
 gacatacagc ttgacctcat tcaaacttct tcaggccaga aaaccagtcc gtttggtcag 180
 gaaaagaaaa atgtagcaca agtagatgac aagatggtaa actcacgcgg ttctattggg 240
 ccgagccatg gacatgtggc tgacgacctc agaccgtcgc aaagtgagtc atttgggaga 300
 gagaacaatt taatggg 317

<210> 45112
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-F9

<400> 45112

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cgttattgaa tactacaacc aggcattgtgc agagtatgct aagcagaaga tgtctacccc 120
agaattcaaa ctagatacga atgctcctac tgtcagctgg gcagatccta agaatgccaa 180
tgaagctaca tctactgcac aggttaaadc tctatatgtc aaaaacctcc ccaagactgt 240
tactcaagag cagctgaaaa agctgtttga gcatgttgga gaaattacaa aagttgttgt 300
tccaccttgc aaatctgggc atgaaaatcg gtacggtttt gttcatttta aagagcggta 360
cat 363

<210> 45113
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-G1

<400> 45113

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aagctcaagg agatcttgga tgatgatata attgaaatga actacgagca aatgttaaaa 120
gacatacagc ttgacctcat tcaaacttct tcaggccaga aaaccagtcc gtttggtcag 180
gaaaagaaaa atgtagcaca agtagatgac aagatggtaa actcacgcgg ttctattggg 240
ccgagccatg gacatgtggc tgacgacctt agaccgccgc aaagtgagtc atttgggaga 300
gagaacaatt taatggtcgt gaaagagctc agcattgaca agcaagagtt accgaggtcg 360
cttgctatgg agccacacga ggagtggaga aacaaggctg tagaaagggt ggcttttgat 420
gcc 423

<210> 45114
<211> 440

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3076-037-Q1-K1-D8

<400> 45114

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ccatctgctg ctccctccgc aaggcctcct tcaaccgcgg cctcctccgc gccgccgcgg 180
aggtgtgcga ggactccatc ccgggggtcc gcatcgacga gctcgacatc tccgacctgc 240
ccatcatcaa caccgacctc gagaccggca gcggcagcgg caccgtcttc ccgcccgcgg 300
tcgaggcctt ccgcgccaa gttctgccagg ccgactgctt cctcttcggc gcgcccgcgt 360
acaactactc catcgncacc cccctgaaga acgcgcttga ctgggcctct agaggaaaga 420
acttgtgggc agacaaacct                                     440
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<210> 45115
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3076-037-Q1-K1-A3

<400> 45115

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accagcgacc gtttcggata gtcaagggtg cagcgtgcaa gcgggatgag cgccgcaagc 120
gcaaggaccg caagcggcag aggcaccttg ttgacgagct cgtgcggtgg caacctctcg 180
gcgccccgac gcccttcca gccgccaccg gatccgtgtc ccccttcaa gcgcatcccg 240
atacgcttg gccgagtgac ccgtcgccgt ctacggaccc cgcggaagcc gacttctgga 300
gctggggccc gtccgccgta ccctcggcga cgccgacgca acccacagtc gacgtggcgg 360
gcgcggtccc ctttgacccc taag                                     384
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<210> 45116
 <211> 288
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-A5

<400> 45116

gtgtcatcgg aagtctgagg ccgtcatgga caccgtttat cctgtcaatg caatggcttt 60
gcatcccata tatgggacat tggccaccgg aggggtgtgat ggatttgtga atgtgtggga 120
tggcattaac aagaaaagac tatatcatgt ctggaagtac gcatcaagca tcgctgctct 180
atcattcagt aaggatgggc atctgctagc tgtggcatcc agctacactt atgaagaggg 240
agaaaaaacg catgaacctg acgctatatt tattcggaca gtgaatga 288

<210> 45117

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-A9

<400> 45117

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ggatgatagct cgtagtagc catgaaagcg aatgtgctca ccaacttgat ctgctcgagc 120
tgcgacaata aagatactat ggatgccata tgggctggaa ccttgtgcag actaaatttc 180
acagtatcgg agcaacactt gtacgagtcg acaagtttgg aaacatatac tctgagaaac 240
tacatgacac tcagtactga aggcatacgt gggtga 275

<210> 45118

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-B10

<400> 45118

aaaaaaattc cccattttct tcgaggcgag gtatagcgtg aaagacaggg caccggcagc 60
gacgatggtt gagctcggca agggcgcaa aggtctgggc aaggcgag caaagcgcca 120
ccgtaaggtg ctacgtgaca acatccaggg catgaccaag cccgcatcc ataggctggc 180
tcggaggggc tgcgtgaagc gcatttcggg gcttatctac taggagacc gcggcgctcct 240
caagatcttc ctcgagaacg tcattccgta cgcgctcacc tacaccgatc acgcacgccg 300

caagactgtt accgccatgg acgttgtcta cgcgctcaag cgctaaggcc gaaccctata 360
 cggcttttga ggctaagctg gatgcctctt atccttgctg tcgtggattc cagtccgtta 420
 gtagggttat ttcggtt 437

<210> 45119
 <211> 191
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-B2

<400> 45119

cagatatcgg cgcgcacctt cacctccacc gccccggcgc acgtgcgcgt cttgggcgtc 60
 ggtcgcctgt tctacttcgg acacgactga cctgccactg ggcctacga agaagacaca 120
 tatgaagaag ctcatcgtca aacctcaacc agattcagtc gctacccttc gattgcctga 180
 tacggaacgt c 191

<210> 45120
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-B6

<400> 45120

cgacaccgag cgagacgtcc acaactcctc ccgctccact aaccctagcg gccaccacca 60
 gcgaccgctt cggttagtca agtctacggc gttcaagcgg gaggagcgcc gcaagcgcaa 120
 ggaccgcaag cggcagaggc acctcgttga cgagctcgtg cgggtggcaac ctctcggcgc 180
 cccgacgccc ctcccagccg ccaccggatc cgtgtcccc tcccgaagcg agcccgatac 240
 gccttgggcg tgtgaccgc cgccgccttc ggaccccgcg gaagccgact cctggagctg 300
 gggccctgcc gccgtaccct cgccgacgcc gacgcaaccc acagtcgacg tggcgggcgc 360

<210> 45121
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-B7

<400> 45121

ggtcaacagc acaagcacag gcgtcacatt aaaataaaat gcaccaatgt gcaacggcaa 60

cgtccattga gacatgatgt tatgcctagc cttacacaaa cattaagtcc acctataaat 120

taaaatcgtc actctagcaa atctcacaag caaaagttat aaggtagcca gctatgcctg 180

ggtagcattt tccagttgca gcaaaaaaag gatacattcc cccgcttgca gagccagggg 240

cgcattagct tcttacttcg tagcttagcg acagcaaaac cattgaacca tacagtccac 300

aggcgcactc gcataattga agagcaacca aagtgccttg aatcccatta tggtagtctg 360

cttactgttg agcgcactgg actttttggg cttcaacagg catthttatt 409

<210> 45122

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-B9

<400> 45122

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gccatgggca actacctcgc gggcggggac gccgtcatcc tgctccacgt gcgccccacc 120

tccgtgctct acggcgcta ctggggcgcc gtcgacatct cccctcccaa ccctagcgcc 180

accgccgact acgaggacgg cgactgcgac tgcgactgcg aaaccgccgt cgccgcgcgc 240

acgatggagg acgactacga cgccttcacg gccaccaatg tcgacgactt cgtcagcccc 300

ctcaaggacg ccggcatccc ctacaagatc cacattgtca 340

<210> 45123

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-C2

<400> 45123

atcggcgcca ggtttcttct gacgggctat gaggcggcca agggccccgt ggacacgtcc 60

aaggaatccc ggtcgccgag ggacaacgac ggccacggga cgcacacgtc cagcaccgcg 120

gcgggaggcg ccgtccaggg cgccgacctg ctgggctacg ctgccggcac ggccaagggc 180

atggcgcccc gcgccccgct cgccacgtac aaggtgtgct gggtcggcgg gtgcttcagc 240
tccgacatcc tcaaagccat ggaggtcgcc gtgacggacg gcgtcgacgt gctctcgctc 300

<210> 45124
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-C5

<400> 45124

agtcacttga tgtgaactat gtgcttggtg tatttggagg tgttactgga tattcttcag 60
gtgatatcaa caagttctta tggatggtag gtattggtgg aggggttttc cctgtaatca 120
aagagccaga ttaccttggt aacgggggagt atcgatttga caagggggca gcacaaaaaa 180
tgctgaactg cctaattgtac aagctttggt actaccgatt tggagaactt accacagaat 240
atggaaaacc tccagggtag gaccgtgtac gaggagtggg gattggcaac aaagatataa 300
agcttgaata cttggaagaa gcatttataa cttcaaactg gatagtgcgc atatacaaag 360
tgaaaccccc aaagaacagg tcctgaagcg tcatcgctag tgaagtgggt tggagagcta 420
tta 423

<210> 45125
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-C7

<400> 45125

cccagagtgc aacaacctga actaccatt ccgcacggtg tgtaacagga aaggatgctg 60
gtacagcaag ccagccccgg cgaacaactg aaccaaacct tcgcgcacgc tccagctatt 120
gttgtacccg tagattgtat cctagtcgtg tgcaatcttt gaactgcacg aagatgtttg 180
tgccctggaga cgagagattc gattcggtac gcttaattta ctattataca tttttattaa 240
atgatgaaaa ctagggaaga tcattatatc 270

<210> 45126
<211> 280
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-D1

<400> 45126

agagtgaac aacctgaact acccattccg cactgtgtgt aacatgaaac gatgctcgaa 60
cagcaagaca gcctgggcga acaactgaac ccaaccttat cacatcgtec agctattgtt 120
gtacccgtag attgtatcct agtcattgtc aatctttgaa ctgcacgaag atgtctgtgc 180
ctgtagacta gagattcgat tcgttacgct taatttacta ttatacattt ttattaaatg 240
atgaaaacta ttgaagatca ttatatcaaa aaaaaaatat 280

<210> 45127

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-D11

<400> 45127

accaccacca tcgacgctgt caacagcgac ctcaagacgt actaatcatt ccgcgagtag 60
gctgtgtctg aacaacactc agctactctt atctaatttg gagcactatc gtgcacgcgc 120
gttatcctga tatgctgacc agtctgcaag agtatgttaa tcatcctcct gttgtgatca 180
tcgcacctag ctactagtga caactactga agagacagga gcaaagagtt aacatgagat 240
gaatgccccct gaccgttatg agcgtttcgt cgtgccaaaa ggcaccaaga aagtgtccta 300
tgaaaaggga taaaagatt gtgaaaggct gcatcattta ct 342

<210> 45128

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-D12

<400> 45128

cccacgcgtc cggtgggtca cccaagggtc tgttgatgta gacattggtg ccaatccatg 60
ggtcgtgggt ggtgaggatg aaagcgttga tgacacagtc gtgaagggtg ttgatattgt 120
tgacacattc cgtctacagg agcaacctcc ttttgacaag aatcatttg tcttttacat 180

aaaaaaatac atcaagaatc tcaactgctgt gttggagcca gagaaagcgg atgagttcaa 240
aaaggggtgtc taggggtgcaa ccaatttttt ttttatcaag cttaatgacc ttttaattttt 300
tgtttgtgag agcttgaatg accaagcgtt cttggtattt tactatttc 349

<210> 45129
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-037-Q1-K1-D3

<400> 45129

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cgctaccacc cccacgaggg cataccctcc cccacacag atcttggaag aggctgccac 120
cccgcccccg ttcttgggcc catcaccctc cccatgcgat gctcgcctac cccacacgat 180
gcaccccttc cttgccttgg tggcgagctt gtcgacgtcg aggcagatgc gggagatgga 240
cttggcggcc tgctccgctt tgctggcgcg ccgctgctcg aggaggcgct tggagcgatc 300
ctnccccctc gncccgtctt cgtcgcgctt ttcgtcgccg ccgtgggtcca ctggagcgggt 360
ccttccccctc cggcccgtct tcgctcgcg cttcgtcgcc gccgtgggtcg gctgtcgcac 420
acgccc 426

<210> 45130
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-D4

<400> 45130

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gttgagccat acaacagtgt cctgtccacc cactctctcc tcgagcacac tgatgttgct 120
gtcctgctcg acaatgaggg catctatgac atctgcgcgc gctcccttga cattgagcgc 180
ccaacctaca ccaacctcaa caggcttgtg tcccagggtca tctcatccct gactgcttcc 240
ctgaagtctg atggtgctct gaacgttgat gtgaacgagt tccagaccaa cctggtgccc 300
taccctagga tccacttcat gcgttcgttc tacgctccag tcatttct 348

<210> 45131
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-D5

<400> 45131

attccccggac ggacgcacac ttacacaagg tccttgatct tctgctcccg aacatttcca 60
tttactccaa ggcaatctgg ataccgaact cattaagtca caatatgggc ccataaacta 120
tcttctaaaa acgtctaact cccgctctat aacaagactc ctaccattac ctaatgcaag 180
atccacatct ccatacgcat caacctttcc tttgatcttt tcaaacactc tttatcctaa 240
ggcaccaacg tcataaccaa ctttacctcc ttctacgctt ttccatcgct ctatatgatc 300
caatattact tacacctaca ttctacttta tagctcttct ataatg 346

<210> 45132
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-D6

<400> 45132

gtgtcaggtg ctgggacgat tggcttccca aatagctttt gtgcttcaag gcaaggataa 60
gcctacgtat actccacatg tggaaaatgg agacatgtgc attgtactta atgcacagga 120
tatcagtgtt acatgaagga aatgacaga taagatttac tactggcata cagggtatgt 180
tggccatttg aaggaaaggt tgctcaaggt ccata 215

<210> 45133
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-A12

<400> 45133

gcacatcaca acagcatcca ccggccatt cttcctcata gccgactgtt caactcaata 60
ctgtccgcag tgcccacacg atcaacgcag caacataatg caccgaatct acatccccaa 120

gctagcaatt cttctgctac tctgcaccaa aacgtctccc gcctacctat cctctgcata 180
aatccatgcg aaccaccca acaacctcgt gctcctcatg aaccgcaaga accagacgag 240
cacgctgcct gcgctgcga acatcacagt ccacgcctc atgcctcatg atctaca 297

<210> 45134
<211> 168
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-E10

<400> 45134

ggcgcagatg tgtggaatcc attggaaaag aaatctaaga ttatggtata cctcggcgac 60
taggagtaca gtcagattct tagcgttgat gcggctgctg tggagagagc aatcttgctg 120
aaaccagggg aagagtggac tgggaagctt gaactttctg cggtttta 168

<210> 45135
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-E2

<400> 45135

gtctgccaca gagatattaa gccacaaaac cttctggtga acccacacac ccaccagctg 60
agactgtgtg actttggcag tgcaaaagtt ctggtcaagg gggaaacaaa catatcgtag 120
atctgctccc gatactatag ggctccagag ctcatatttg gtgccactga gtataccaca 180
gcgattgaca tttggtctgc tggatgtgtt cttgctgagc ttatgctagg gcagcctttg 240
tttccgggtg aaagtgtgtg ggaccaactt gtcgaaatca tcaatggcct cagtacgcca 300
acaagggaag aaattaaatg catgaaccca aattacacag 340

<210> 45136
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-036-Q1-K1-E4

<400> 45136

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tctctgcgat ggcgcgcacg aagcagacgg cgaggaagtc gaccggcggc aaggcgccgc 120

ggaagcagct ggccaccaag gcggcgcgaa agtcggcccc ggccaccggc ggcgtgaaga 180

agccgcacag gtttcgcccc ggcaccgtcg cgctccgcga gatccgcaag taccagaaga 240

gcacggagct gctcatccgg aagctgcctt tccagcggct ggtgcgggag atcgcgcagg 300

acttcaagac cgaccttcgg ttccagtcct cgggcggcgc cgcgctgcan gaggccggcg 360

aggcgtaact ggtgggtctc ttcgaggaca ccaacctctg ggccatccat gccaagaggg 420

tcaccatcat gcctaaagac attc 444

<210> 45137

<211> 373

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-036-Q1-K1-E9

<400> 45137

caaaacctgt tattatcagg tnatggttgt tttctagtgg tggaagggtg aagttggagc 60

tttgttcttg gaggaatgaa tggttattgt gaaaagatc tttatttttc aactatatca 120

cgtgtaacta ttaacttggc cctttcaact ttatctctgt gcttgaaagt gccaacacc 180

cactcctgca gtacttttgg tcaaactgcc aaagtactac ttggtactta gtgtagatg 240

ttaatagtgt gcatgtattt agtctctaata acaagggtgct gtttgcaact tgtacttcat 300

attttgctct tttgcccggt caatatgctt agctgcacat tcctagcact taacaccttt 360

aaattttaat cat 373

<210> 45138

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-F12

<400> 45138

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tcgggttcgt gtgaaatcgg atcgagatgg cggcatccga tgttgagtac cgctgcttcg 120
tctgcggcct cacctgggcc acggacgacc actccctaca caactccttc agcacctact 180
gcgaggctct ctagtccaag atcatccttt atctggagac gcaaaagtcc cgcagcttct 240
gcttcttcac cttcttcact gacgatgcga ttcataacgc catctaaggc attaacggca 300
atgagcttta cagacgtaac atcac 325

<210> 45139
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-F6

<400> 45139

ggttggtgga acaagcttgg gatgagacat ctaaactctaa acccccaggt gctgttggtg 60
tgagcattgc acttgagaaa tgtcttccta acaatccttc atctgatctt gggttgcgaa 120
ggttactgtc caggggttgaa cctagcatca gtgtacttgt ctgttcaagg ggtggtggcg 180
gtctgttgac tgaacgcag gaacttgctg cggagctttg gaaagctaac ataatggctc 240
agtttgttcc tcaggaagat ccaagtcttc aagaacagtg tgaatatgcc agtgaacatg 300
atattaaatg ccttgcaatt attactgaat ctggcctgtc acaaacagac cttgtgaagg 360
ttcggcatct tgattttaaa aagagaagga tgttgaagag agggactaat aagtatctgt 420
ctgatgcaat gtgtttacaa 440

<210> 45140
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-G12

<400> 45140

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aagggatctg cagaggtttg ccaacgttct cacttcggcg cctgctggga ggaagtgggt 120
gtcggatgag cttgctgtgg tggctgagtc gaaggaggtt gctggggata tgatcactga 180
ggctgtgctt gatcaggttc ttggtgagaa ggcatttgag aaatttggga agtggttcat 240

ctcgccttcgt ttttcagacc agttggcagg atcttacaag aaggtecttg cattcaagtt 300
 tgtattgccg gatgcaagca acatgtcaga gatgacaaga ttagttgctc ttgtgccata 360
 ctacattgat ttggttgggc cgtataagct cagctctcat gctcgtcta aaactgatgg 420
 agc 423

<210> 45141
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-G4

<400> 45141

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 caggaccggg cggcacgtcg gggactggga gcaacttcac ttccgcgtca gcaacctcac 120
 cggtgagctc atgggcgtgt actactcgca gcacagcggc gggcactggg tggacgcctc 180
 cgcattggag tacatcgacg gcaaccggcc tgtggtgtac tcgtccagga acgggcacgc 240
 gagctacgcg taccctggcg tgtacctgca gggctcggcg gcgctcgggg gcgggatccg 300
 caactacgcc gctcgtagca ggctattcgt ggactccagc gcc 343

<210> 45142
 <211> 209
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-G6

<400> 45142

gacgaactac atgtctgctg ggcagatatt tgttcctatt gtcgttaggg gtggaaatgg 60
 tgctgctgct gtagagggtg gccaaactc acagtgtat gcaacttggg atgcacatgt 120
 tcccggattg aaagtattat ctccatattc tgcagaatat gctcatggct ttctgaaagc 180
 tgcaatcatg gatccatatt ctgttgtgt 209

<210> 45143
 <211> 227
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-G8

<400> 45143

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gccttcacgt caaggactac aggtactgag ttgcttctct ttgcgatccc gttgttttgg 120
aactcctgcc tgctattggg ttgctgagtg ttgtttgctt gttagagctt ttatattcgg 180
acatgaaaaa aacatgcttc ctatgtggat gattgttata tttatat 227

<210> 45144

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-H10

<400> 45144

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tgcggttggg ctacaaatgt atggggacgt tctcacttct gcgcctgctt tgaggaagtg 120
tttgttttat gagcttgctg tgggtggctta ttctaataatgat gttgctgggtt atatgttcac 180
tgatgctgtg ctttatcatg ttcttggtta gaaagcattt tataaatttg tgaagtgggtt 240
catctctctt cgtttttcat accatttttc ttgatct 277

<210> 45145

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-H11

<400> 45145

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ggcttcatag gtcacagggc gtggagaaat ctaggcagaa accgcaggaa aggatgtctg 120
ttttatctga tgtgctgcaa agaagcaact atgatgcaga gcccatgttg aaggcatgcg 180
ggattacaat tgctagaaat ttcacagaag ttgatggtag ggtattgcag ccacctaagc 240
ttaaagctgg gaatggtgaa gacattttta cacgcaatgg tagatggaac ttcaacaata 300
agaggctcat tagagcttgt agtgctgaga aatgggcggt ggtaaacttt tctgcacgat 360

gcaatgtcag ggatcttgtc cgggatctca tcaagtgtgg aggcattgaa ggcattatgg 420
 ttgatgtccc ttt 433

<210> 45146
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-H12

<400> 45146

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 ggatcatgaa caacgctatt ctagaggcga acgtagaaac agaagggggc actgaatctt 120
 ggaagaatgc cgttctaggt ggacaactta ttctcagctt tcaccataa gttccagtcc 180
 cagatctttt ctacggcagc aagaccaaca catcattacc tccgctgcaa cattaatctc 240
 tgcttttgtt tgtatcatatc tttggatttt actacgcaaa gagcgaagtc tgcaatatgt 300
 aatatgttgt ggaacagaca tgaacggtag gatttttttg gttggaattt gtggtgcgca 360
 tgttgtgat cataattatg ata 383

<210> 45147
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-H3

<400> 45147

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 ggtgagattg atagagcctt agatttaaca aagtctggag tccctgtgga agatatgcag 120
 agcaaagtct gtttcaacaa gcttgaagat gattcttctg cgactgcagg tccatgtctg 180
 actgggagtt caattgcagc ttcattctat aatctgatca gacatcaaaa ccaacgtagc 240
 tctactgtga catccaatcc tgatggctgc tacgaaggcg caccttcaaa agtcgtggat 300
 gcgcaaaaat ttgatgcgga aactctttct gtat 334

<210> 45148
 <211> 466

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-H6

<400> 45148

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tctcttgcaa atcttgaagg gattgagaag gcagcgccat ttctgaagcc tctgattgaa 120
gagcatacta ttaaatcatt catccaaggt ttccttccgg gaattgctct gaagatcttc 180
cttatattgc tcccaagcat attaatgttt atgtctaagg ttgaaggatt gacctcaata 240
tcttcactgg agagaagatc tgcacaaag tattatattt tcatattctt caatgtgttt 300
ctggcaagca ttattgcagg atctgcttta gagcagctaa aaagctatat tcatcaagca 360
gcaaataaaa taccaaggac gattggtgaa gcaattccaa tgaatgcaac cttttttata 420
acatatccaa tgggtgaatg gctggactgg ggtagctggg gagata 466

<210> 45149
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-H9

<400> 45149

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agatgactga ttgcacctgg gatcatgtca ttccttgcta ccaacaaatg caggaatgca 120
gtttgcaaga cggaaagacc aactctgggt aggtccaatc caaggcgttg tgtcatgata 180
atgatatgaa agctgtctct gtaaatggaa aaccatttta ccatttatgg gacataacat 240
taaccagaca ctgtgtcatg atgtcagtgt tgcaaaatca accaaggcac cctta 295

<210> 45150
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-A1

<400> 45150

ggttttcagt ttgattatgt ctttgactgg acaatattga agtaccaaca agtcaaatt 60

gccactgctc caccctgtgc gggccatggc gctgggcctt ctgggttggc acctgcatta 120
cagaatgata ggcaaccagg ccctgaggaa gcaaggacta gtgggttggc atcaatggat 180
cggcgctcgtg cccactacc aattacaagt gtggggacat tatctaagca gaaagcaccg 240
gtaggggaatg atgctattgt ttctagagac gctgtgatat ctggaccaa tttcttggga 300
aggtcaagtg gatcttcaag gaggcctgtt atctcgagta gccgcgatgc ggtggtcacc 360
gatagttccg agccttcacg agcgcgcaca actgatgcaa gcctt 405

<210> 45151
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-E1

<400> 45151
ccgatttgct ccgccgagaa caacatgggg agaagctata atcacagtcc atcgccaccg 60
agaggctaca ggagaagaac tcgcagccca agtcctcgtg gtcggtatgg aggccgtgat 120
actgataggg acctcccaac tagtcttttg gtgaggaatc ttcgtcggga ttgtaggcct 180
gatgaccttc gtagaccatt tggaaaattt ggccccgtta aagacatata tctgccaaag 240
gattactaca ctcggttaacc tagaggattt gggttcatcc aatactttga tcctgatgat 300
gcttctgatg caaagtacta tatggatggg aaga 334

<210> 45152
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-037-Q1-K1-A10

<400> 45152
ctacgctcac gccactcatt cgtcgtgcct acgatatcct gtctccatgg ccgcaacgag 60
gctcggccgt cttgatacgc atgaatgtga cactgctcac caacttcac cttaccttc 120
tatactaaag atacttcaaa ctcttcttgg actgtaaccc tatgcaaact aaatttcaca 180
atatctgtac caacacttgt acgagctgac aagttttgaa ac 222

<210> 45153
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-A8

<400> 45153

gcgaccacgc gtcctaaaac gagctatcgt gcgagctctg aagtacgtag aaaatggggg 60
ttggcgacga tatccagcac atcggatgtg acatcggaac tggatatggc aacgctgact 120
acgccggcaa cgacgccttg aggaccatct tgcggagcat gctcgagagt gctctccaca 180
ctggtatcat gcacaagaac gcgcacatgg acgactacgt ccatgacaag acgcatatca 240
agacgcttat gctgaccatc aagcaccgca tgcagcacgg catcgacaac atctagaaca 300
acatgcataa catcttgtac tacaagctct acaacgagct ccacgtggat cccgaggagc 360
acaccgaggt gctcatcgaa gcgcacgtta acccgaagga taacaccag aacatggccc 420
agatcatgat cgagaccttt aacaacgtcg ctatgt 456

<210> 45154
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-B10

<400> 45154

gggcccacgc gtccggggtc cccaaccca gaacaaaaag aatgggtcga cgaccaagaa 60
aacattatta agcgggtgtg tggaccaatc aggtgccaac tccgggctag aattgtcagg 120
aaacgataac cctagctaca ccaactcgag cagtgtgtg ccagtgccac ccgcaagcac 180
ccaaccagtc gagtctgctg ccgctgctgt agacgttgat tcggtcgaga aaggcccatg 240
tacgacacca gaacagccgg cgaagcgaat agcgaccaac gttcgacgag gacggataat 300
ggtgttgca atcgcaacga gagaatgaag agcgacgtat gggggggata ttgttgctgg 360
atactaaata ttaacggccc aaattaaatg ggggcctt 398

<210> 45155
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-B11

<400> 45155

gcggtgctgg gcttgcagat atcaaccgcg tggaagctgt cgctggaaaa tgcactgtta 60
tatgtactgg aaaggataag aggaatcgtg aaccatcccc tcaggaaacta caaattgctg 120
attatatctt ctatagggtc tttgatgtta aaagtctaac actttctgat cagttaccag 180
ataaaattgc tgcatttaca gttgatcttc ttctgaatcc aaaagatgag ctagtcatac 240
ctgcaaattgt tctggtgaat ccaaattgtg atgacggtat ggttgccaca gttcctacac 300
ccccttcagc agttaaattg gaggatcgaa gtcacgctgc tgcactttcc cttacgcaga 360
caggccatgt ggatgaaaat ctgtctggca c 391

<210> 45156

<211> 64

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-B12

<400> 45156

gcggtatcgg caccgttctt ccccgcttct ccagtcacgc tcaccagccg cccccacaat 60
aatg 64

<210> 45157

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-B2

<400> 45157

cccacgcgtc cgcccacgcg tccggaaagc ccatcaaaac atcaatactg gtcaccgtca 60
gatatgagat aacatttctt gggaggctat cagtgaaaaa ttaaccactc gtagagccca 120
agaatgctgc acgaaatggt acgggcaatt ggcacgcgcg ctggttaaac aaggaatctg 180
agcagataca gatgactaca tgtagtgga agcgcttcaa aatgtcgatg ctgtttgtgc 240
tgaagatgtt gactggg 257

<210> 45158
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-036-Q1-K1-B4

 <400> 45158

 cggacgcgtg gggcatttcc cttgctaaaa aaaaatgcat ggatgtacta gataaaccgt 60
 ggcagagtgg cagcagggac aagaacattg cggatctaca ctaaacaatga tctagtctaa 120
 ctgcacggac gctaattgga atattgatct aagacaggag atcactctac gccttcttgg 180
 gggacttggc ggccttcttg ggctccttgg cgccttcta ggccaccttc ttggtgagga 240
 gcacagtgtg gatgttgggg aggacgccgt cgtgggcgat ggtgacgccg gtcagcaact 300
 tgccgagctc ctcgtcggtg cgaatggcga ggaacacg 338

<210> 45159
 <211> 317
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-036-Q1-K1-B5

 <400> 45159

 cccacgcgtc cgcccactcg tccggccagt ccttctgaca aactgtaact ttgcagccac 60
 gtacatgtgg tatctgctga atccacgttg ggatgcaaca atccatgtcg aaaatgtccc 120
 tgacttctaa tgcgacaaac tcttggtact gtctgttct caaacagctt gcgtctgctg 180
 tcatcagaga ctattatctc aatgctgac gtacgaaaac actctctgat ggttcttcta 240
 ctctaaagta tcgcaacca gaatatttgc tcacgctcaa ttatctaaca ttttacctct 300
 cactagtata tgctaag 317

<210> 45160
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-036-Q1-K1-B8

 <400> 45160

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.ggtaggtcac ctatgtgacc aatcctcacc attggtttca cagcacttag taagcatacg 120
 tttgaagacc gagttggttg atttgggtctg tccattcgct ctaggagggg ctcgacttcc 180
 tttgagctat gagaaatggg agcgcccttct tctttttttt cagggatctc cttgggtaca 240
 aagagagcta tggagcctag ctgaaagctt gacaaggcct atttaagtga attcggccac 300
 ccaacaatcg cagaaagaaa ggggcattca aaaccttgca gggattcctt ctctaaggt 360
 tgctctgaag taaccgctcg tcttgatgct ggcagtcaag aaggcaaaga gttgacttct 420
 acttttgaaa gtgtaggagt tgaccttcct tcgcctatct 460

<210> 45161
 <211> 211
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-C2

<400> 45161

aagcaagctg aggtagatcc tctggttagt gcttgtggaa gcattcatga tcgatatgcg 60
 gatatgtgga aacatctaataa ggaaaggatg gagcaattag cacagattgg ttctgcaaca 120
 ggtatatata atacatttgt taggtatttg gtctgtgttc cacatgattc attgaatttt 180
 agtcgacaaa tatatgatca taatgggcct a 211

<210> 45162
 <211> 107
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-C4

<400> 45162

tccactcctg cgccactcc tctgcccact ccttctttca aactgaacta tccaccacg 60
 gacatgtgat aacttctgaa tcgcaccgta tcattcaaca atccatc 107

<210> 45163
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-C6

<400> 45163

ggcgacgggtt gcatcacaac caaggagctt ggaactgtca tgcgttcact gggtcagaag 60

ccaacgggttg ctgaactcca ggacatgata aatgaggtgg atgccgacgg caatggcacg 120

atcgacttcc ccgagttcct caacctcatg gcccgcaaga tgaaggacac cgactccgag 180

gaggagctca aggaggcgtt caggggtgttc gacaaggacc agaacggctt catctctgcc 240

gcggagctcc gccacgtgat gaccaaccta ggcgagaagc tgaccgacga ggaggtcgac 300

gagatgatcc gcg 313

<210> 45164

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-C9

<400> 45164

gcgtctacct ttacaacccc tcatacgtac caacttaggt ttacaattat gttttcaaca 60

aaaccttcag tgaattctta aacctttttg cgtcatcaca cttcactaca cattgtcagc 120

ttcaatttat ctcaattctt tccgttacta ctacattgaa ccattatata actttctata 180

ctacgaacac caacaatatt atactatatt ttaaacttgt attcatatca aattactctt 240

cttcataatt cttccc 256

<210> 45165

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-D10

<400> 45165

ccccatataa gtttcaactg aggttacaat ctttttttca acaaaacctt caagtagtac 60

tttaaccgcy tttgcgtcat cacacttcac tacacaattt tttttataat ttacgtcaat 120

tcttttctgt tctgtctaca atgaatgaat atttaactgc ttatatatttt aagaccaata 180

atatcatact atatgttaaa cttgtattca tatcatatga ctttcactta taatttttcc 240

caaaatattt aatccttggt aaatgtcttt tttactcaaa atacctttca ttgaattt 298

<210> 45166
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-036-Q1-K1-D11

 <400> 45166

 tctttgttct ttaggaatca attttattgt aaaaatatct ttatttttaa ctatatcact 60
 gtaactatta acttctcctc taactttatc tctgtcttaa agtcccacca cccactcctc 120
 actacttttg tcaaaactgcc aaatctactc tgtacttacc ttagattaaa tagtgcgcat 180
 ctattagtct ctatacaagg tgctgtttgc actttgtact tcatatttgg ctctttggcc 240
 gttgcaatat gctgagcttc acattcctag cacttaccac cttaattac aatcatcata 300
 aa 302

<210> 45167
 <211> 152
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-036-Q1-K1-D12

 <400> 45167

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 aaaggtacag gttgttcttt taccctgtgg cgatcacaca ctttactaca cacattgacg 120
 tcgaacttat gtacaacatt attcgctctc ct 152

<210> 45168
 <211> 58
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-036-Q1-K1-D2

 <400> 45168

 aaccaacctg agctcactcc tccgtttagc cctagtttta accttaacta tccatctg 58

<210> 45169
 <211> 210

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-036-Q1-K1-D5

 <400> 45169

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 ggcgcgtcta cacacataat gagaccatcg acccgctgta ggccttcgc cgactggccc 120
 tgtataccat cgaccttatc gaggaccctt attttatgcg catccacctc atcagctact 180
 agtgcaagct gtgcctgaca ctgtacaaca 210

<210> 45170
 <211> 481
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-036-Q1-K1-A3

 <400> 45170

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 tcgcctaagc tgcgacgacc atccatcgaa caggaaggat gacgggctcc atggatctcc 120
 cggccaaggg cgggttcagc ttcgacctgt gccgccgga caacatgctg gagaagaacg 180
 gactcaaggt cccgggattc aggaagaccg ggacaaccat cgtcggcctc gtctttcagg 240
 atggggttgt tcttggggca gacacaaggg caactgaggg ccccatagtt gctgataaga 300
 actgtgagaa aatccacttt atggcaccga atatatactg ctgtggagca ggaactgctg 360
 cggacacgga ggccgttaca gatatggtga gctcccagct acagcttcac cgttatgcaa 420
 cgggccgcca atcaagagtt gtaactgctc ttacactact gaagtcacac ctcttcaagt 480
 a 481

<210> 45171
 <211> 288
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-036-Q1-K1-D6

 <400> 45171

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cgccgcccgc cgtggctagg aggggtggagg tggacggcgg aggcgacggc agcgactcgt 120
 cgtcgtcccc gagctcgtgc gtgtcgtcgg acggcagtcg agggagcaag tcgccgatgg 180
 tgatcggcgc ctgcacgcgg tgcattgatgt actgcattggt ggccaagaag gacttccccca 240
 cctgcattcaa ctgcaagcag tcttgccctcg tggacctgct tcaactgct 288

<210> 45172

<211> 72

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-D7

<400> 45172

gacccacgca ttcgctgacg cgtgggtcaa cttcctgaat attgtttctt gcataaagca 60
 gtggaagagg tt 72

<210> 45173

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-D8

<400> 45173

caaggataga tataaggtac attttcttcca ttgtccatac tgggtcatta tttggcgtgg 60
 acgcgcatga gagctgcgca tcattaaatt aagagaagaa aacagtccaa aatggaccaa 120
 agtacaatgc caaaatatgc aaaacacaag accatcaatt cctgctgcgc acagaactac 180
 agcctccttc tgcgcatgaa aacaacagta cgcaaaataa gaacaacagc ataaagtgcc 240
 agcagaccac acacacaact gctcttctact aatcacccaa cagaaccctt gacctaaaaa 300
 ttgcagcacc aggaccata acctcaagat gtctagcact gggtcattat tctctgttgc 360
 aattatgttc 370

<210> 45174

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-D9

<400> 45174

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cctgccaaagt aagcactatc atcgagccct cctccgccag gaagcgcaat ccccgcgta 120

ctatctccca cctgaagtac cacatggcgc actttaccgc cctccctcc gtccgccacc 180

ttctcatgtc catattgctg tgcactgaac tccaacacaa ttacaacttg cgctccattc 240

cgatcccaaa tgacgacaag gtgcatgtc 269

<210> 45175

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-G2

<400> 45175

cttctgcttg ttctatgtta tggctgagct ctggggcagc gtcgtcatct ctgtgctctt 60

gtggggggttc gctaatacaga ttaccacagt tgatgaagca aaggaattct acccgttatt 120

tggccttggg gctaataattg ctcttatctt ttctgggcgt actgtgaagt atttctcaaa 180

tttgcgcaag acattgggtc caggaattga tggctgggaa gtatctttga aaggaatgat 240

gagcatagtg gtactccttg gacttgtcat aacttccatc tatttgggag tgaacaagtt 300

tgttttgaat gatccttcac ttccaaaggc tgatcgtaag aagaaaaagg gaaagcccta 360

acttgga 368

<210> 45176

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-035-Q1-K1-G4

<400> 45176

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gaaatagaga tgtcaatgca ggtggctgct tgnncaaagg agcttcgagg gatggagagt 120

tactgcatta aggagtttgc tgacgcactt gaggtcatcc cttacacact ggctgagaat 180

gctgggctca acccaatctc cattgtcacc gaactcagga atcgccacgc cagaggtgag 240
aagaacactg gcatcaatgt gaggaaaggg cagatcacia acatcttgga ggagaatgtc 300
gtgcagcctt tgctgggtgag cacaagtgcc attacgctgg cctgcgagtg tgtcaggatg 360
atcttgaaga ttgatgacat tgtcactgtt aggtgagagc atgaagtcng tggtttggtc 420
ggattgctct gttctgtc 438

<210> 45177
<211> 381
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-035-Q1-K1-G5

<400> 45177

gcggttggtt atgctctcaa gctctgaaga tggcatgacc gttgaagaat atgaancaag 60
attgacttag tttgccagg ctgaggaatt tattgatgag acaagcattg atgctctagc 120
agtttgcatt ggaaatgttc atggaaaata tccacctagt ggaccaaacc ttaaatttga 180
cttgctaaag gaccttcgtg cattaacatt aaagaaagga gttagcttgg ttctccatgg 240
agcatctggt ctatctcatg agctcgtaaa agagtgcata gacttgggcg tgagaaaatt 300
caatgtgaac actgagggtc ggaacaacta cctggcggtc ctcataaagc cagaaaagga 360
cttgattcat gtgattgcgt c 381

<210> 45178
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-035-Q1-K1-G7

<400> 45178

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aatagacatg attgggagtg catgccaac tgctagtaaa gttattgcag agggccgtga 120
gagctatggg ctgggaagcc gtcattgggac aaatcttggt cctacattgg acaaagcaca 180
agctgcaaag atacaggagc aggaaggcct acttagagca gcagtaaatt atggtgaagg 240

attacgggta cctggagatc agaggcatcc acaatctctt cctatccatc tgatagaagt 300
gcttccttta ggagacgggtg cacaaaatTT tgggtgatagt tctggtagtt atccccaaaa 360
tatgtcaaca tttgcaccta atagtgtcaa cagccaggga aatcagattc aggcattccg 420
aagacagtta ct 432

<210> 45179

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-H11

<400> 45179

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gagcaatggg aagatcgTcc acatcaatcg ggtaactggg gaagcacaag cacgtagtga 120
aggtgtagcg gaagtaatct tcaaaggTtc aaattttaag ctgcaaacia ctatcactgt 180
tctcaaggTg aaccagatag ttgttgatgc tcttgccggag aactgacta atgcagctgg 240
cctgccggat ggatacatgt tttctgtgag atttagtgat tcaattgagc acagtattgg 300
atcctctgcg agcccaatta atgtcccctt tgaatgcaaa gttgaccctt cttttgttgg 360
gtttgttgag ccatggactg agcatgccac aaaaaaatcc tact 404

<210> 45180

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-H12

<400> 45180

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actagggatg aaggTcgTcc acatcaatca aactactgat gaaacacaag ctcgatttga 120
aggtgtatca gaagtaatct tcaaaggTtc aaattttaag ctgcaaacia ctatcactgt 180
tctcaaggTg aaccagatag ttgttgatgc tcttgccggag aactgacta atgcaactgg 240
cctgccggat ggatacatgt tttctgtgaa aattaaggat tcaattgagc acaatattgg 300
atcctctgcg aacccaatta atgtcccctt tgaatgcaag gttgaccctt cttttgttgg 360

gtttgttgag ccatggactg agcatgccac aaaaa

395

<210> 45181

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-H3

<400> 45181

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cgaggggtcc gtcaatgccg cgcgcagcaa gaatcgcgtc ttggcaacca tgatcaagcg 120

ctgcacggac gggagcgcct tcaccaaagt cgatgcctgc aacaaagacg tccaagacct 180

cctaatacac atgcacactt tcaaccgtca agaaaagatc aggatgacgc tcgaagcgca 240

tgtagtacia aagaccgacc atgtaccag tgctgaccga 280

<210> 45182

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-H4

<400> 45182

gcgattctca cagagaaagg cctcgagagc gtgtcctagt tgcggtactg gatggccgtg 60

tcaggatggg gaggccgacg acgtgaacga acctggggag gaggagctag cctcgccagc 120

taaccatccc tcggggaaga agcgcaggag agtcaaagct gagctggtgg aggaaaacga 180

catcgcaggc ccgtcgacgg aggtgcctag gactaggagg accctgagaa gcgctaaagc 240

cgaagcagtc gaggccgacg aagaggcgtc gtccaccgca gcttcgcagc caggcagggg 300

ttctaaaaca aggaagaagt gagtgatgac tgatgatgca tgcttataaa ggaggagat 360

tgcaaatgct cctcctttgc catgtgtaga tactaccgta gacgtgctgg tatggtatcc 420

ggtgggtagt ttttc 435

<210> 45183

<211> 332

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-035-Q1-K1-H5

<400> 45183

nctggnnnttn nnttnnnnttn naaacagtat ttacatgtgt ggacatnnnn nnnnggggnag 60
ggtnnttttg aagatcgtcc acatcaatcg ggtaactggg gaagcacaag cacgtagtga 120
aggtgtagcg gaagtaatct tcaaagggttc aaattttaag ctgcaaaca ctatcactgt 180
tctcaagggtg aaccagatag ttgttgatgc tcctgcgag acactgacta atgcaactgg 240
cctgccggat ggatacaagt tttctgtgag atttagtgat tcaattgagc acagtattgg 300
atcctctgcg agcccaatta atgtcccctt tg 332

<210> 45184
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-H6

<400> 45184

cggattcccc ggcagagatg tccaagatgg cggaggagaa ggcggcggca gtgggcggac 60
tcggaggagc cggggcggcg gacgcggcgc agcagcagca gctggcagca ggggaggccg 120
cggcggcgcg ggtgcggccc gtggagacgc tgcttcgcgc ggcaccgctg gggctctgcg 180
tgcccgccat gaccgtcatg ctccgtaacc agcagagcaa cgagtacggc gccgtcgcct 240
actccgacct gggaggett c aagtacctcg tctacgcaa cggcctctgc gctgcctact 300
cgctggtatc cgcgttctac actgccgtgc cgaggcctgc caccgtgtcg cgctcctggc 360
tcgtcttctt cctcgaccag gtgttcacgt acctgatcct ggcggcgggc gcaacggc 418

<210> 45185
<211> 254
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-035-Q1-K1-H7

<400> 45185

gaattccccg gcagaggtgt ccaagatggc ggagganaan gcggctgcag tgtgctttct 60

ctgaggagcc gtttcttctg acgcggcgca gcttcttcag ctggcgggag gggaagccgc 120
 ttctttctctt tttctgcccc tggatactct tcttctcgcg gcaccgcttg ggctcttcgt 180
 tgccccatt acccttattc ttccttacca acataacaac caattccggg ccctcgctt 240
 cttcgacctt ggaa 254

<210> 45186

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-H8

<400> 45186

gtcacggact cgcgtccaca aaccacaacc agctcactca agaacaaga acccaaccca 60
 gggtctctcc caagccgctc ctctgtctcg ccacctcgtt cctgagctgc ggctctctgg 120
 tggccgccga ctacgcccc atgacctga cgtggtgaa caactgcccc taccgggtgt 180
 ggccgggcat ccaggccaac tccgggcacg acgtcctgga gggcggcggc ttcttctctc 240
 cgccgtcttc ccacaagtcc ttccgggcgc cggcccacc ctggtccggc cgcctctggg 300
 cgcgcacggg ctgcgcgggc gccggcggc agctccactg cgccacgggc gactgcggcg 360
 ggcggtctca gtgcggcggg ctc 383

<210> 45187

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-A10

<400> 45187

acgattttcc aattgagtta tgcagtcttg tgcctttaca aagatacact aaagctttga 60
 acacgcttcg gaggtcatca ctctgtgaga aatctatgca gaaaccgcag gaaaggatgt 120
 ctgttttctc tgatgtgctg caaagaagca actatgatgc agagcccatg ttgaaggcat 180
 gcgggattac aattgctaga aatttcacag aagttgatgg tagggtattg cagccaccta 240
 agcttaaagc tgggaatggt gaagacattt ttacacgcaa tggtagatgg aacttcaaca 300
 ataagggt ctt 314

<210> 45188
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-036-Q1-K1-A11

 <400> 45188

 cggacgcgtg ggctcgggcg cagcaattcg tcgagcatcc gccgcgctcg acggccaccg 60
 gccacgagg gcaccatggc gtccgccacg cgtgctctgg gggcgctcct ccacagggcc 120
 tcgtctctgt ctctctccgc tcccgctctc cggggagcct cgctcctccg cggggacggg 180
 cctattggaa gcgccggact gttccggagg catgcggcga ggcggcggat ttctgctgtc 240
 cagccgctct gcatgggaag acgctcctgc aaaatcgctg gaaggaaggg aggcaatcct 300
 ttggatttca aaatgtagtt gatctaattc atgcatatgc tgccaaagct gttactgaac 360
 aactagacca aaatgagaac cttgtatcag tcaatgcaga tgtctgccaa ttctgggaaa 420
 agatgt 426

<210> 45189
 <211> 346
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-036-Q1-K1-A12

 <400> 45189

 gcgccccacgc gtccgcccac gcgtccgccc cactctcgct tcgatgaggg acgcggtggt 60
 ggtgatggcg ttgcccggag ccggaggcgg gggcggagga tcggcctcgt cggcggcggc 120
 ggcagcggcg ccgtgcgcgg cctgcaagct gctgcggcgc cggcgcgcgg ccggctgcgt 180
 ctctcgcccc tacttccgc cgggggagcc gcacaagttc gccaacgtgc acaaggctctt 240
 cggggccagc aatgtcagca agctgctcca ggagatcccg gcgcagcacc gatgggacgc 300
 ggtgagcagc ctggtgtacg aggccaacgc gcgcgtcatg gacccg 346

<210> 45190
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-036-Q1-K1-A2

<400> 45190

cccacgcgtc cgagaaagag gacaccctgg ctcatgtgtg tgttgacagt accatggtac 60
agtagcaatt gggctcatca gggatgaaggc gacagtatga tggcttcaat ggagcctttg 120
ctgtacgctg ctcatgtgga tatggtaata gcaggatcatg tccatgctta tgaacgtgcg 180
gagcgagtct acaattccag acctgatcct tgtggcgctg tccacataac tatcggcgac 240
ggatgggaacc gtgaaggctt gggccgcagg taccgtaacc cgaagccagc gtggtcggtc 300
ttcagggaag cgagcttttg gcacggcgag ctaaagatcg tgaac 345

<210> 45191

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-035-Q1-K1-G12

<400> 45191

ctgtgatcgt tgataggagt tcatatgggg tagttttaag gatagatttc aatgtgagct 60
gtcctgcgct ntcattgtgaa tttgcatcag ttgatgttag tgacgtgctg ggaacaaaca 120
gattgaacat aacgaanact gttcgaaagt attcaattga tcggaattta gtaccaactg 180
gatcagaatt ccaccctggg cctatcccca ttctcaataa gcattggagat gatgtcgaag 240
aggatcacgt ggatgggtgca ttttcattgt catctcgcaa ttttgatagc ttttcacacc 300
aatatcctgt tttggttgct aacttctatg ctccctggtg ttactggagc aatcgactga 360
aaccctcatg ggagaagaca gcaaaaataa tgaggagag atatgaccct gaaatggat 419

<210> 45192

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-035-Q1-K1-D4

<400> 45192

cggacgcgtg ggcaaggctt agatattcac ctcaactcca gggtcacaaa gatcatacaa 60

cggctataac aaggttattg tctgtgtgga agatggggcg agttttgtcg cagacgctgc 120
 tatagtaacc gtcctctctg gngtactcaa ggcanacatc atcaagtttg agcctgagct 180
 accgaaagag aagctctcgg caatcgccga ccttggcgtc ggtatcgaga acaagatagc 240
 tctcaagttc gacactgtgt ttntggcccg acgttgaagt gataggtagg ggtggccccg 300
 acgtcaaacg cctgtggcta ctttctcaac ctttaacaaag ccacaggaaa acccgtcctt 360
 gtgtgcatgg gtggcccgaa ggttcgcgta cgagatcgag aagctgtcgg acgaaaagtc 420
 cgtgaacttc gtcatgtnc cactcangaa catgc 455

<210> 45193
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-D6

<400> 45193

ccttaagggg ttttttggat tgtttatggt ccaaatgcag caacttcgga aaaaattcag 60
 agtcgtggat ttacctatg gatttgggac agctaatact gcacttatat atcatcatgg 120
 taaactcatg gccttgtcag aagcagataa gccatatgtt gttaaggtcc ttgaagatgg 180
 agacttgcag actccttggt tgttggatta tgacaaaagg ttgaaacatt cttttactgc 240
 ccatccaaag gttgaccctt ttacagatga aatgttcaca ttcggatatt cacatgaacc 300
 tccatactgt acataccgtg tgattaacaa agaaagagct atgcttgatc ctgtgccaat 360
 aacaataccg gaatctgtaa tgatgcatga ttttgccatc acagagaatt actctatatt 420
 t 421

<210> 45194
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-D7

<400> 45194

aggtgccaac caagctggtg atgcttagaa aaaggaagat gctactgtcc cctcggagag 60
 ggtgacctcc aagaggagga aaaagaatga caagagttca aaggaggga gaaaagaaac 120

acaagaagca gccgatgggt cataggagac tgccagtgca tgacctgatg aagaagatac 180
 cactgctgtg gacgtgaagg agcgtttgaa gaagatggct tcaatgaaga agaagagatc 240
 gagcaaagag actgacaccg gtgccaaaat cgccgctgcc gatgccacat caaggagcgc 300
 aaggcttgcg gcggccaaca agaaagataa tagtcattac aaccagcatc ctgtgcggta 360
 aatgggcata aagttttgga tttgggtgct ctgaatttta tatttccttg tagttggact 420
 cacaataata cttttttgat ctgtcgtatt ta 452

<210> 45195
 <211> 305
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-D9

<400> 45195
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 ttttcgaatt tacttccccg gttagtgttt atttttaaatt agaccaagcc cccaatttct 120
 cctttttttt tatectcttt tcattatcaa tacaattttt tttttattct ttttctcctc 180
 accatataaa attattattt tctttaccat atttatttac tactattctt ttttatataa 240
 aattatttct tttatatttt ttatcattta atataatctt cctacaacaa ttcattctaa 300
 ttttt 305

<210> 45196
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-E1

<400> 45196
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 ctaagtgttt ggagacgggt gagactgttg ccataaagaa ggttcttcag gataagcgtt 120
 acaagaaccg tgagttgcag accatgcgcc ttcttgacca ccctaattgtt gttgctttga 180
 agcattgctt cttttcaact actgagaagg atgagcttta tctgaacttg gtccttgagt 240
 atgtgccgga gacagttcat cgagttgtga agcatcacia caagatgaac caacgcgatgc 300

cacttatttta tgtgaagctg tatatgtacc agatatgtag ggcattggct tacattcatg 360
gcactattgg tgtctgccac agagatatta agccacaaaa ctttctgggtg aaccacaca 420
cccaccagct taaactatgt gactttggca gtgc 454

<210> 45197
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-E2

<400> 45197

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gcgccggcgc ctgtaccagc tgcgtcaaga tgagtcggca ccctgagggtg aagtgggctc 120
agaggatcga caaggtttac atcactgtac agttacctga cgcaaaggat gctaagggtca 180
atttggtacc agatgggtgc ttcacattct ctggcagtgc tggtaaaac ttgtatgaat 240
tgaaactaga tctgaatgac aaagtaaacg ttgaggctag caaaataagt gtgggggtca 300
gggccatatt ctgtatcgta gaaaaagctg aagccaaatg gtggaagaaa ctcgttcgag 360
atgatcaaag ggcacctcac tttgtgaaag ttgattggga caaatgggtt gatgaagatg 420
atgatgggtc tgatatcaac atggatggga tggactt 457

<210> 45198
<211> 393
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3076-035-Q1-K1-E4

<400> 45198

caanacagat gaagtgaagc tgaacacctg ccactgaaaa gcagggtcaag ttgagagagt 60
cgtttcangt aaaggaaagg aaaacagang gaaagacatc gtgagaaact cataaaaaac 120
agaacttgca aggcaaattt tgctcagttt cattgtgaag tcagtgcattg acagtttagg 180
ttccgcccaa gctgaaccag agaggaagcc aagtggatca gatgaagcta gtaataaaca 240
gagcagcaac ttagtcaaga atgcttctgg tcgcaaagat tcagataaac aagagaaatc 300
catggaggtt cccaagggcc tgaaggatac agagggattt acagtcgttt caaaacgtcg 360

aaggcgggccc cagccattca tgaaccccat aaa

393

<210> 45199

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-E7

<400> 45199

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ggtcctccgg cgaggcctgt tgctcgccgc gcagcccacc acccgcgctc ttgccaaacc 120
gtctctccgc cctgcttgct tcttcgtcca ccacttcgcc gtcgacacga tgggtgaggg 180
ttctgctgct ggtaaggacg cgaaggggaa ggggaagggg aagaccaagg ccgccgccgc 240
ggattcggcc ctggtcgttc gcgacgactc ctacctagag gcggtcactc agaagaggat 300
tcgcttcttc gaggagatcc aggcaaggca agccgctcgc cggtgaata tcggcggcga 360
agttatcaag gtaactttgc ctgatggcgc tatcaaggag gggtagaaat ggataacaac 420
cccaatggat att 433

<210> 45200

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-E9

<400> 45200

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ggcagttgca agatgacggg acgaagtata tgagtgtgga gggccagtac acagaggagg 120
aacttgaaat gtacatggaa aaccataaga aagtcatggg tgattctctg tggaagctta 180
acgttgctga catagaagcc acattatccc atgtctgtca aatgggtactt caagacagta 240
gtgccagaaa ggaggaattg cgctccgtg ctaaaggctt aaaaacttta ggaagaattt 300
tccagggggc taagggtcaac cctagcgagg gggaaacatc acaaacgaag aatatagaca 360
acatggatgg caatgacggc agcttccttg actcgttccc aaat 404

<210> 45201
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-035-Q1-K1-F12

 <400> 45201

 acgtcaagcc cgcgttcacg gctgttttct tcaacgtcca ctaccattac tccaccgggg 60
 gtgtgtgccc ctaggcgtcg gcgcgcgcct ctctttaata gacccccctc accctcacct 120
 tctctacctc ccgtacatcc tcatactaaa gaacctcgat ggcacccctg accataactga 180
 tctcatgcct ggctcatct ttgacaaaaa ggctagccat gctactgggg gcccaactca 240
 aatggagaat gctaaaatcg ctgtcataca actacaaatc tgaccacca atactgacat 300
 tgaccagaga gtcattttat tcgactactc acacatggac cgcattctac 350

<210> 45202
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3076-035-Q1-K1-F2

 <400> 45202

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 tgattctnat cgttcattta gcaataagaa aagggtcttg cttcaggtga cgagatcata 120
 catatccatt ccaacaatgt tgggtaccca tgataatcnn caggggtggnn ggggtggggac 180
 ctannggctt nnacttagta cccagtagca caaaaaatta aagagggttc tgcataaggt 240
 aaatagcnnt ttgtttctta accatttcan nttcattcca ttatnntact gattgagaag 300
 aaacatgaaa cgacgtgaat tattgcaatc caagggcaga atggatgggg atggatggag 360
 aatgaacta 369

<210> 45203
 <211> 297
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3076-035-Q1-K1-F3

<400> 45203

tacatgataa tccacgttgg ggggtggcgac tatgctaact tagtacatta tcacaaaatt 60
aaaaagggttc tgcataagta atagctttgt ttcttaccat ttcattcatt ccattattac 120
tgattgaaag acatgaaacg actcaaattc aatccaatgc atattgattg atggattgat 180
attactaccg aaaaaaaagg ttcactccga tctggcggct tatctttcca cctttgtgtc 240
cttttatttt attcctacca ttttcttccc tatccctctt cttacttcaa ccaatat 297

<210> 45204

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3076-035-Q1-K1-F4

<400> 45204

gatcgcgggc cgcccttttt tttttttttt tttttttttt tttttttttt ttttttnggg 60
gaacaaataa atgcatcttt ccagcgggga aaagtcttcc tgtatacagc catttcacag 120
ccaggctctc attatcatct tcttgggact catatggagg aaagaataga cactccaaac 180
taaaagtttt gaaacacact atcagcctct aaacccccat aagaaaataa tctcaaaatt 240
gacgtctcgg ctttgactcc gcagccgtga ctcggatctg tctaccatcc aagtcgatgc 300
catcgagggt tgatatggca ttgttgacct cttgggcgga gccatagggt acgaaaccaa 360
accccttga cctgccgcta tcctgtcgt agatgacctt agcatcaagc acttgcctt 420
gctcactg 428

<210> 45205

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3076-035-Q1-K1-G10

<400> 45205

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gggagggatt ggcgtcgggg cataccgacg tgctcgagaa cctcgagccc aaggtcagga 120
agcgcgttga gaagctcagg gagatccagg gcgaacacga tgaacttgag gcgaagtttt 180